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Spectrum is an e-magazine with the comprehensive collection of all the papers that have been published in our journal over the last two months — Volume 7, Issue 3 (May-June, 2021). This edition brings together 486 papers by 1436 authors from 339 institutions. Each entry links to the abstract and the full paper.

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ABSTRACTS

1 Design and analysis of auditorium using STAAD Pro software

Paper ID V7I3-1137 · Pages 1-4 · Civil Engineering

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This project deals with the design and analysis of the auditorium which is located at Aurangabad in Maharashtra State. The auditorium can be used for all types of formal assembly, lectures, seminars, functions, award ceremonies, cultural activities like dramatic plays, singing, and dancing. The Project is based on the limit state concept, the structure is designed to resist and liable to bear all loads liable to act on it. It should satisfy the requirement of serviceability within the limitation of Deflection and Cracking. The analysis done using STAAD-Pro and Structural Detailing had done using AUTO-CAD.

Keywords: Slab, Beam, Column, Footing, Auditorium, Dead Load, Analysis, Design, Structural Detailing, Shear Force, Bending Moment, Staad Pro, Auto Cad.

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2 Design and analysis of underground water tank using STAAD Pro software

Paper ID V7I3-1138 · Pages 5-9 · Civil Engineering

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The water tank is a structure used to store water for supplying to households for drinking purposes, for industries as a coolant, and irrigational water for agricultural farming in some areas. Water tanks are classified on basis of their shapes and position of structure. In this paper, we had discussed the design of an underground water tank of Rectangular shape that is Designed and analyzed using Staad pro. Underground water tank faces a different type of loads compared to other structures, they mainly face horizontal or lateral loads due to earth pressure and water pressure or any liquid pressure which is been stored in the tank. The sidewalls of the underground water tank will face greater load at the bottom and the load linearly decreases towards the top.

Keywords: Water Tanks, Structural Design and Analysis, Loading Applications, Plates Stress Contouring’s, Base Pressure, Hydrostatic Pressure, Soil Pressure

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3 Fire and safety in building

Paper ID V7I3-1140 · Pages 10-15 · Civil Engineering

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The point of this examination was to analyze fire security measures and their practicality in structures, the necessary measures are innovation-based. Structures ought to be planned so that inhabitants can escape without help from anyone else in the event of a fire. In any case, contextual investigations show that inhabitants frequently are discovered unable to escape on schedule and generally subvert precautional estimates needed to stay away from or get away from fire. The investigation approach depended on occurrence assessments what's more, genuine analyses, for example, unannounced clearing drills. The potential outcomes of computer-generated reality for examining human conduct in flames are up until this point scarcely received by specialists. By the by, since in virtual conditions test people can be confronted with the marvel of fire in a protected manner, Data was too gathered from books, magazines, diaries, and related articles, the application of a social evaluation and examination device in augmented simulation is required to be a significant enhancement on the current examination techniques. In everyday little data is thought about genuine human conduct in an occasion of fire flare-up. Thusly, it is smarter to let the fire security of structures be founded on genuine human conduct in the fire. It is critical to edify tenants on security measures to be taken during fire flare-ups in and around their structures and other fire counteraction techniques to embrace for their wellbeing. The investigation suggested reasonable fire security measures in understanding to best practices after due assessment of existing fire security measures as it applies to clients and the adequacy of these actions.

Keywords: Fire Security, Data, Hazard

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4 Digital rupee – dissecting the viability of CBDC in India

Paper ID V7I3-1143 · Pages 16-24 · Economics

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Crypto Currencies are gaining widespread attention all around the globe. Given many of the disadvantages and high risks involved in crypto transactions, new emergent mechanisms of exchange like Central Bank Digital Currency (CBDC) are entering the market domain which seems relatively promising and less risky. Indian economy can be characterized by ever-rising Non Performing Assets (NPA), low money multiplier, tax evasion, poor tax base, the menace of black money, and high currency deposit ratio (CDR); our research finds that CBDC along with effective policy intervention mechanism can act as a panacea towards ebbing out such perplexities which the economy is confronting. Research points out the poor banking habit among the Indian population which is the primary driving force behind the big divorce between theoretical and actual money multiplier in India. Implementation of CBDC has the requisite potential towards developing banking habits in the masses. Akin to two faces of a coin, with charms come concerns and in the same consonance implementation of CBDC also poses some daunting challenges. First and foremost is the concern of data security in the contemporary milieu when the advancement of science and technology is at its zenith and concomitantly cyber crimes have been witnessing a spur. However, CBDC is a form of cryptocurrency which is characterized by the storage of data using blockchain technology. Under the blockchain framework of data storage, pieces of data are stored in

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a decentralized manner which makes data theft and deletion an arduous task for cybercriminals. The use of mechanisms like 'Tokenization' can also contribute towards securing the data of depositors and preventing frauds and scams. Another impediment in the way is the existing digital divide in the economy, however, implementation of CBDC mechanism in a phased and targeted manner can curb out this impediment to a greater extent. The unprecedented economic crisis owing to the pandemic might have devastating implications in the future and in order to rejuvenate and get all cylinders firing for the Indian economy, CBDC implementation is a dire exigency given the implementation is efficient and in a phased and targeted manner.

Keywords: Cryptocurrency, Blockchain, CBDC, Economy

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5 Comparative study of Stainless Steel and Aluminium Alloy for static structural analysis of quick release coupling used in the steering system

Paper ID V7I3-1144 · Pages 25-28 · Mechanical Engineering

Shweta Basangoudar, Student, Vishwakarma Institute of Information Technology, Pune, Maharashtra

The paper presents the design and analysis of Quick release coupling. Finite element analysis is used to evaluate the performance under severe turning of steering wheel conditions by comparing two materials. Aluminium Alloy and stainless steel are used as quick-release materials. DS Solidworks 2020 and ANSYS 19.2 are used to design and carry out the analysis for determining the distribution of forces, variation of stresses, and deformation across the quick release. The most reliable and efficient material of quick release coupling which is required in FSAE competitions is determined. Static structural analysis has been carried out using the axis-symmetric finite elements. To get appropriate results the model is divided into discrete elements so that the forces are applied effectively in each region

Keywords: Quick-Release Coupling, Aluminium Alloy, Stainless Steel, Solidworks, Ansys

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6 Air conditioning using Peltier effect

Paper ID V7I3-1164 · Pages 29-34 · Mechanical Engineering

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The current air-conditioning system does cooling by refrigerant gases such as Freon, CFCs, etc. While these refrigerants provide good output, their major disadvantage is the emission of harmful gases that damage the ozone layer. A way to overcome this issue is by making use of air conditioners that use thermoelectric modules for cooling, which work by the Peltier effect. These models do not emit any harmful agents, thereby protecting the environment. This project discussed in the paper deals with the study of those thermoelectric air conditioners using the Peltier module. Conventional compressor run cooling equipment has more limitations related to energy efficiency and Chloro-Fluro Carbon (CFC) refrigerants use. Both these factors indirectly point

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to the impending scenario of global warming. As most of the electricity generation relies on coal power plants, which add greenhouse gases to the atmosphere is the more cause of global warming. Thermoelectric air conditioners have multiple advantages over conventional air conditioners, like, they are smaller in size, they weigh less, have high reliability, have no mechanically moving parts, and no working fluid. This paper focuses on a Peltier Based Air conditioner that will be easily portable

Keywords: Chloro-Flouro Carbon, Die-Electric Semiconductors, Peltier Effect, Seebeck Effect, Thermoelectric Module

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7 A study on crack propagation and life expectancy

Paper ID V7I3-1167 · Pages 35-37 · Mechanical Engineering

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Cracks are the most common flaws that are usually observed occurring on metallic surfaces, however, the existence of a crack on any material deteriorates the overall strength of the component and in turn, becomes the prominent reason for the failure of the component. The purpose of this research is to find out the behavior of a crack when the component is put to undergo cyclic loading. The study of cracks comes under the section of the vast concept of 'Fracture Mechanics'. The concept gives detailed information about the formation and expansion of cracks and also contributes largely in determining the probable failure time of a component under cyclic or fatigue loads. It's important to know the life of a component keeping the existence of a crack of even the smallest size under consideration. The project uses concepts and information from fracture mechanics and forecasts the process of propagation of cracks on metal and determines its life under a given loaded condition. To determine the life of the component pre-established relations and formulae are used and results are obtained using a numeric and graphical approach.

Keywords: Cracks, Crack Propagation, Cyclic Loading, Fatigue, Fracture Mechanics, Expected Life, Failure of Component

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8 The intelligent agent-based information security model for cloud

Paper ID V7I3-1157 · Pages 38-45 · Computer Science

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Dr. Manoj Kumar, Professor (Department of CEA), Department of CEA, GLA University, Mathura, Uttar Pradesh

Today's era is the era of cloud computing and agent-based processing. Data security and integrity are achieved by information security systems, which ensure the continuity of business and protect organizations against potential risks. Information security systems are used to estimate the risks and search the place of the occurrence of the risks. It should also be able to measure the risk consequences associated with cloud organizations. The cloud organizations must analyze the information system processes and they should develop their own information systems based on the analysis. This paper proposes a comprehensive Agent-Based Information Security framework for Cloud Computing. We have considered risk assessment methods for

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calculating consequences by focussing on potential threats, assets, vulnerabilities, and their associated measures. A decision system for the organizations is created by taking the help of intelligent (smart) and software agents that are used to fetch and group the relevant information used in a framework that decides against threats based on information provided by the security agents. We have used a fuzzy inference system based upon fuzzy set theory for creating a decision system.

Keywords: Information Security, Risk Management, Agent-Based Computing, Multi-Agent Systems, Cloud Computing, Grid Computing, Fuzzy Logic, Fuzzy Set Theory

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9 IoT based android application for remote health monitoring

Paper ID V7I3-1165 · Pages 46-48 · Electronics And Communication Engineering

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Health care is extremely important to each country. Negligence in health monitoring may result in negative outcomes. The advent of the Internet of Things (IoT) facilitates growth in the digital health care field. The main idea behind the project is to constantly monitor the health condition of a person with the help of sensors and the internet. The core purpose of the project is to develop an android based application that collects the data from a wearable sensor like a smartwatch via Bluetooth and transfer the data to the cloud for data storage and graphical analysis. The stored data can be accessed across various devices connected through the Wi-Fi module. The entire application is developed on the Android Studio platform and Firebase real-time database is used for the back-end services of the application. As the outcome of the project, an application is developed that connects different devices through the internet that helps in monitoring the patient's health even from a far distance without necessarily approaching the patient and can also be alerted in case of any abnormalities.

Keywords: Internet of Things(IoT), Firebase, and Android Studio

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10 Augmented cut and paste

Paper ID V7I3-1195 · Pages 49-53 · Computer Engineering

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Augmented reality (AR) is an intelligent involvement of a real-world environment where the objects that dwell inside the world are upgraded by computer-generated perceptual data, now and then over numerous sensory modalities, including visual, auditory, haptic, somatosensory, and olfactory. AR is regularly characterized as a framework that fulfills three essential highlights: a blend of genuine and virtual universes, real-time interaction, and exact 3D enlistment of virtual and genuine objects. The overlaid sensory information can be constructive (i.e. additive to the natural environment), or destructive (i.e. masking of the natural environment). This involvement is consistently interlaced with the physical world such it's seen as an immersive angle of the vital

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environment. In human–computer interaction and interface plan, cut, duplicate and glue are related commands that give an inter-process communication method for exchanging information through a computer's interface. The cut command evacuates the chosen information from its unique position, whereas the duplicate command makes a copy; in both cases, the chosen information is kept in transitory capacity (the clipboard). The information from the clipboard is afterward embedded wherever a glue command is issued. The information remains accessible to an application supporting the highlight, in this way permitting simple information exchange between applications. With modern developments in machine learning, it's possible to accurately detect people and objects around us, remove the background automatically and transfer the result to a computer. To date, AR had been utilized to venture advanced pictures into the genuine world. However, the "AR Cut & Copy" app reverses the process and brings physical things into the digital world.

Keywords: Augmented Reality, BASNet, Deeplab, SIFT, Screenprint

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11 Is India on the path to achieving agenda 2030 for zero hunger a comparative analysis from a global perspective

Paper ID V7I3-1148 · Pages 54-61 · Social Science [economics]

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This paper examines the UN Sustainable development goal 2, i.e., zero hunger. Here, we review the hunger and the nutrition situation prevailing in India and suggest policy measures for ensuring adequate food security at the household level, particularly for the marginalized groups, destitute people, women, and children. Also, we will analyze the fall of India's performance in comparison to the other BIMSTEC nations. The main objectives of this study are to critically analyze if India still stands a chance in achieving the targets of Agenda 2030 & to evaluate India's performance in comparison to other BIMSTEC nations. The study is based on secondary data being collected from the reports being published by United Nations with regard to performance in the sustainable development goals as well as the various reports being published by the respective countries. For the study, the BIMSTEC nations are taken into account which includes Bangladesh, Bhutan, India, Myanmar, Nepal, Sri Lanka, Thailand. The study is comparative in nature. And also, the major indicator that is used to derive the interpretation is the GHI. Besides other indicators are used based on the target to be achieved.

Keywords: SDG, Hunger, GHI

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12 E-learning resources are economically feasible to a rural area college student in Ahmednagar district

Paper ID V7I3-1158 · Pages 62-65 · Commerce

Kishor Devidas Pakhale, Assistant Professor, Ashwamedh Arts Commerce Night College, Ahmednagar, Maharashtra

In the competitive world and fastest-growing technology, every student is capturing updated knowledge and growing his skills every time. In traditional learning, this is not possible to every time update. But in modern

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learning is helps students updating their knowledge and skills every time 24*7 and anywhere. But their point of view is that an e-learning resource is more costly. This study help to the student they are change his attitude negative to positive about e-learning resource is not economically feasible to me because of my parent's income is low in this study we give the suggestion to use more and more e-learning resource and capture updated knowledge. This paper uses the questionnaire, interviews, and using SPSS software for results and findings.

Keywords: Elearning, Rural Area, Economically Feasible

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13 Co-fuzzy sub ordered finite gamma near rings

Paper ID V7I3-1172 · Pages 66-75 · Mathematics

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Pakala Venkatrao, Research Scholar, Sri. Venkateswara University, Tirupati, Andhra Pradesh, India

In this paper, we introduce and study the concept of co-fuzzy sub ordered finite gamma near rings and L-fuzzy sub ordered finite gamma near rings with maximum and infimum conditions, where L stands for a complete lattice satisfying infinite meet distributive law. We discuss the concept of intersection and union of co-fuzzy sub-ordered finite gamma near rings. We also prove theorems on homomorphism of finite gamma near rings.

Keywords: Fuzzy Set, L-fuzzy Set, Co-Fuzzy Sub Ordered Finite Gamma Near Ring, Homomorphism of Finite Gamma Near Rings

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14 Email routing automation

Paper ID V7I3-1185 · Pages 76-77 · It Industiries

Clement Maria Prasan A., Research Scholar, Loyola ICAM College of Engineering and Technology, Chennai, Tamil Nadu

To run a company in success way, one needs to satisfy the client requirement in the industry. A lot of companies are hiring people to monitor the requirements of the client is being done or ongoing in production. In order to reduce the process of hiring a lot of managers for monitoring, build a bot to monitor the employee using the centralized mail of the company, in which the director of the company can able to monitor the employee. He is being assigned a task to be completed the module in time and initiate the process to production, the monitoring process is done to all the employees of the company. This will lead to a limitation in the process of hiring the people for monitoring purposes. This also helps to know the current situation of the project to the Director or the HR of the company and can predict the completion date of the project. The data can be accessed in any system by the manager and make the process to be done.

Keywords: Managers, Employee, Resources, Bot, HR, Director, Hiring, Task ID, Database, Spreadsheets

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15 Driver drowsiness detection system

Paper ID V7I3-1191 · Pages 78-82 · Image Processing

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Making insightful systems to prevent minor accidents can be particularly incredible in limiting the difficulty and loss of life. Street crashes and related types of mishaps are a typical reason for injury and death among the human population. One of the elements which assume a significant part in mishaps is the human blunders including driving exhaustion depending on new brilliant methods; this application recognizes the indications of weariness and lethargy despite the individual at the hour of driving. The proposed framework depends on three separate calculations. In this model, the individual's face is monitored by a camera in the initial step by getting 14-16fps video grouping. At that point, the pictures are changed from RGB space into YCbCr and HSV spaces. The face territory is isolated from different parts and exceptionally precise HDP is accomplished. That the eyes are open or shut in a particular time span is controlled by zeroing in on thresholding and conditions concerning the balance of human appearances. The proposed framework has been carried out in excess of thirty distinctive video successions with normal precision of93.18 and a discovery rate (DR) of 92.71 out of approximately 2500 picture outlines. High precision in the division, low blunder rate, and fast preparation of information recognize this framework from comparable ones. This framework can limit the number of mishaps brought about by drivers' exhaustion.

Keywords: Drowsy Detection, Matlab, Viola-Jones Algorithm

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16 Review on wireless sensor network routing and topology approaches

Paper ID V7I3-1200 · Pages 83-86 · Electronics And Communication Engineering

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The distinct advancement done in the field of wireless technology possibly developed the use of wireless sensor networks (WSN) consisting of small devices which are used for collecting the information with proper cooperation planning with each of its parts. These small types of devices are generally known as the nodes and it consists of memory used for storing the data, CPU for data processing, transceiver enabling the communication signals between the sender and the receiver, and the battery for energy fulfilling requirements a Wireless sensor network is a group of nodes that are connected to each other by wireless connection. These types of networks work on the dynamic topology of the network because the positions of nodes in the wireless network are changing continuously. The nodes in WSN are basically made up of small electronic device which is used for sensing, computing and transmitting the data. The nodes are run on battery power during the communication process.

Keywords: Self-Efficacy, Locus, Intelligence, Learning Style

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17 Task scheduling in the cloud computing using an improved cuckoo search algorithm

Paper ID V7I3-1208 · Pages 87-93 · Information Technology

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Cloud computing is an advanced internet resources network that is used by many users remotely. The resources include software, hardware, and various applications. The main challenge in cloud computing is task scheduling due to numerous requests are generated simultaneously from remote locations. To overcome this challenge, task scheduling algorithms are designed that appropriately arrange the tasks. In the literature, metaheuristic algorithms have been deployed for optimal task scheduling. The most popular algorithms are genetic algorithm, particle swarm, and cuckoo search algorithm. However, if the initial population of these algorithms is properly not defined then it is easily trapped into the local optimal solution and causes low precision. In this paper, we have overcome this issue and designed an improved cuckoo search algorithm. In the proposed method, the initial population is defined using the chaotic map algorithm and after cuckoo search algorithm is applied to determine optimal task scheduling. The experimental results show that the proposed method is superior in terms of convergence rate, makespan, average waiting time, and average turnaround time as compared to the existing algorithm.

Keywords: Cloud Computing, Chaotic Map, Cuckoo Search Algorithm, Task Scheduling

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18 Optimization of bio-composite helmet

Paper ID V7I3-1209 · Pages 94-97 · Mechanical Engineering

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The primary aim of our project is to increase the safety of helmet users and also to reduce the usage of plastic. This led us to the idea of BIO-COMPOSITE HELMET. Generally, bio-composite materials are synthesized using natural fibers as reinforcements together with matrix due to their low density with high specific mechanical strength, availability, renewability, degradability. The present work attempts to make an improvement in the existing helmet manufacturing process. The materials that are used have better mechanical properties in order to enhance the compatibility between fibers and the matrix. The biocomposites are prepared using unsaturated polyester matrix and fibers such as coconut coir and areca using hand lay-up method with appropriate proportions to result in helmet shell structure. The fabricated helmets will be evaluated for their mechanical properties such as hardness, impact strength, and compression strength. Thus, we constructed bio-composite helmets that have highly strong and environmentally friendly.

Keywords: Coconut Coir, Areca, Epoxy Resin, Adhesive Making, Surface Treatment of Fibres, Hand Lay-Up Method, Mechanical Properties

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19 Measures of lexical diversity

Paper ID V7I3-1222 · Pages 98-101 · Second Language Acquisition

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The “natural” and the “formal” acquisition of a language by a child are best seen as two ends of a continuum. The acquisition of languages involves a combination of formal instruction and natural acquisition. This paper captures an overview of select prominent tools used for measuring vocabulary diversity across first and second language contexts. The tools include type-token ratios (TTR) and the more recent automated measure of VOCD.

Keywords: Second Language, Vocabulary Measures, Void, Type-Token Ratio, Lexical Diversity

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20 Traffic prediction for intelligent transportation system using machine learning

Paper ID V7I3-1190 · Pages 102-105 · Machine Learning

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Traffic is the most major issue in an urban area. The most problem comes because of traffic in all developed cities, So people suffer a lot of time in the road traffic. This time is totally a waste for me personally and for society. In most urbanized areas space is a scarce commodity. Therefore, better management of the existing roads to increase or maintain their capacity level is the only solution. So this project is to develop a tool for predicting accurate and also predict time to help the community. Because of accidents, traffic signals, even repairing the roads these problems are causing traffic. If we get information which is near about all above and many more daily life situations which can affect traffic jam then deriver take the decision on the basis of the situation to move or take other decision. In the current situation, traffic data have been generating exponentially. The already some available prediction methods for traffic flow but those are unsatisfactory to handle real-world application. In this project, we proposed to use a machine-learning algorithm to analyze the traffic with better performance

Keywords: Random Forest, Decision Tree, SVM (Support Vector Machine), Machine Learning, Traffic Prediction

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21 Static and thermo-mechanical analysis of brake disc and pad using finite element analysis

Paper ID V7I3-1219 · Pages 106-110 · Mechanical Engineering

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In the automobile, the braking system is a very important part. The brake pad plays important role in braking. Previously Asbestos is used as a brake pad, but asbestos is not good for the environment and human health. So, the use of Asbestos is prohibited. Currently, a lot of research is going on to find out a brake pad material that will replace Asbestos. Some materials selected for the brake pad are Carbon Fibre, Sic, ZrO2, S2 Glass fiber. Out of this material, Carbon Fibre is a material used for Brake pads. The static and thermomechanical analysis is performed in ANSYS Workbench. For this analysis, Carbon fiber is used for the brake pad and the Aluminium alloy is used brake disc. In static analysis, the deformation and stresses are found out and in thermomechanical analysis, Thermal effects are added to find out the deformation and stresses. It found that after the addition of thermal effects, the deformation and stresses are increased considerably. But both stresses and deformation values are within the failure limit

Keywords: Finite Element Analysis, Brake Disc, Brake Pad

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22 Gender bias at workplace and the remedial measures

Paper ID V7I3-1228 · Pages 111-114 · Humanities

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Despite the substantial rise in the number of women joining the workforce, gender parity continues to suffer, especially at higher positions. In India, 85% of working women claim to have missed out on a promotion or hike because of their gender. About two-thirds of working women (63%) and working mothers (69%) say they faced discrimination at work due to familial and household responsibilities. It is the need of the hour for organizations to reimagine their diversity practices and offer greater flexibility to caregivers, to increase female participation in the workforce. Reduced and flexible schedules, more sabbaticals, and new opportunities to upskill and learn are critical offerings that can help organizations attract, hire, and retain more female talent. Gender bias is the tendency to prefer one gender over another. It is a form of unconscious bias, or implicit bias, which occurs when one individual unconsciously attributes certain attitudes and stereotypes to another person or group of people.

Keywords: Gender Bias, Work Place, Discrimination, Remedies

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23 A literature review on EELS – Intrinsic characteristic of producing electric current

Paper ID V7I3-1210 · Pages 115-117 · Biomimicing

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An eel scientifically known as Anguilliformes is a fish consisting of ray fins which belong to the Actinopterygii family i.e. family of eels in freshwater. It has 8 suborders, 19 families and 119 genera, and somewhere around 800 species. Eels have various intrinsic and extrinsic characteristics which alter and develop when they grow physically. Eels have an elongated structure (long length fish) with a length ranging from 5cm to 4m and weighing from 30g-25kg (in adults). Eels swim by generating waves from their body structure .they can swim in both forward and reverse directions forming body waves. They generally reside in deep waters or sea in holes called “eel’s pit”. Some of the eels may stay at freshwaters but they too will come back to the seas for breeding. There are two types of eels that are commonly seen one is deep-sea spiny eels and the other is the electric eels producing an electric current of high voltage. Both these characteristics of eels help them from protecting themselves from predators. This review paper considers the lather characteristics of the eels of producing electric current using their own intrinsic characters and how they behave during the act of producing current

Keywords: Eels, Anguilliformes, Actinopterygii, Intrinsic Characteristics, Eels Pit, Electric Eels, Deep Sea Spiny Eels

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24 An integrated approach for the smart grid using the data compression and encryption algorithm

Paper ID V7I3-1215 · Pages 118-123 · Electrical Engineering

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Smart Grid network continuously monitors the electricity demand and usage through various smart appliances. Continuous monitoring generates a large amount of redundant data. Besides that, the data is sensitive to attacks. To overcome these challenges, we have designed an integrated approach for a smart grid using the data compression and encryption algorithm. We have used the DRACO algorithm for data compression. Further, we have designed an improved chaotic cubic map algorithm by hybrid it with AES layers to enhance security. For validation purposes, the data is randomly generated and various performance metrics are calculated for it. In the last, the proposed integrated approach is compared with the existing approaches. The results show that the proposed approach is superior to the existing approaches.

Keywords: Advanced Encryption Standard (AES), DRACO, Chaotic Cubic Map Algorithm, Smart Grid

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25 Effectiveness of relaxation therapy on stress among teachers of mentally challenged schools

Paper ID V7I3-1197 · Pages 124-131 · Nursing

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Stress is an inevitable word in this fast-spinning technical world. Efficient and Effective performance depends on the better psychological well-being of the employees. A study is conducted to assess the Effectiveness of Relaxation therapy on stress among 120 teachers of mentally disabled children. A quantitative research approach with a pre-experimental one-group pre-test post-test design is adopted. Data collected through self-report using the stress Assessment Scale. The findings revealed that there is a significant reduction of stress (t=23.68,p

Keywords: Stress, Relaxation therapy, Teachers, Mentally Challenged Children

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26 Economic load dispatch problem using improved flower pollination algorithm

Paper ID V7I3-1230 · Pages 132-135 · Electrical Engineering

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In this paper, we have designed an improved flower pollination algorithm to find the optimal solution for the economic load dispatch (ELD) problem. The solution to the ELD problem reduces the generation cost and power losses in the smart grid. In the proposed algorithm, we have considered a three-unit system. The performance analysis of the proposed algorithm is done based on generation cost and power losses. Further, it is compared with the popular optimization algorithm such as particle swarm optimization, genetic algorithm, and flower pollination algorithm. The evaluation results show that the proposed algorithm takes 3602.9 $/h generation cost and 9.3205 power losses which is far lesser than existing optimization algorithms.

Keywords: Chaotic Map Algorithm, Economic Load Dispatch, Flower Pollination Algorithm, Smart Grid, Generation Cost

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27 Role of the Fair-Trade Organisation on the status of women producers with respect to global trade

Paper ID V7I3-1154 · Pages 136-137 · Economics

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The fair-trade movement began in the year 1946, in America at the time when handicrafts were being imported. The concept of fair trade soon gained popularity in the U.S. and also spread to Europe. The foundation of the fair trade movement was based on the fact that the producers receive a fair price for their produce. FT program began with the handicrafts and soon expanded to other products like coffee, banana, sugar, tea, wine. It was in the mid-1980s when the model of fair trade came into the picture and at that time,

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progressive entrepreneurs including Paul Katzeff started importing coffee from Nicaragua so as to support the Sandinista farmers. The plight of the Nicaraguan farmers was such that they were suffering from starvation and malnutrition at the time when the U.S. boycotted their country's goods. A national standard for fair trade certification came into existence which was founded in the year 1997 as an umbrella organization with the aim to collaborate and coordinate this system of fair trade across the world. In the backdrop of Fair Trade, the study aims to analyze the impact of the Fair-Trade Organization on the status of women producers in the field of global trade. It seeks to understand the role played by FTO in reducing the gender gap by taking into consideration the gender inequalities in global trade. Further, it focuses on the effectiveness of FTO in terms of the participation of women producers in global trade and also the benefits received by the women producers after its establishment. This study will help in better understanding the role played by Fairtrade in addressing the various issues faced by women producers and how effective it has been in reducing gender inequality in global trade.

Keywords: Global Trade, Fair-Trade Organisation, Impact, Gender Inequalities, Women Producers

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28 Embedded system design for the forced circulation system

Paper ID V7I3-1214 · Pages 138-140 · Electronics Engineering

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In today's world, most people are shifting towards renewable energy resources like solar which is globally accepted. The Forced Circulation Solar Water Heater System is not well-known but is one of the efficient types of water heater systems. In our country, such a system uses old techniques and is also costly. But we had upgraded it using an Embedded design which is much better in the economical and easy upgrade.

Keywords: Solar, Forced Circulation System, Arduino, Renewable Energy

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29 Online-Fraud Detection, Web-Scraped Dataset Analysis and Algorithm Performance Evaluation

Paper ID V7I3-1241 · Pages 141-145 · Computer Engineering

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Dr. Megharani Patil, Associate Professor, Thakur College of Engineering and Technology, Mumbai, Maharashtra

The volume of online information transfer has raised significantly in past few years. It is mainly due to various online portals that are currently one of the primary sources used by people. It is not always the case that the information found online is correct unless gained through some trusted and verified source. This is the reason why the user falls victim in the hands of false media. The term "Click-Bait" and "Fake News" are heard several

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times but people are unaware of the harm it is causing. The paper incorporates a Novel Neural Network Approach where Headlines are specifically taken into consideration. The model is tested for various types of headlines included in the Dataset. The proposed system is not only tested for Click-Bait Datasets collected from various news sites but also web-scraped data. Considerable results are obtained in terms of Accuracy, F1-score, Precision and Recall.

Keywords: Click-bait, FastText, Natural Language Processing (NLP), Neural Network (NN).

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30 Underwater image enhancement using improved Particle Swarm Optimization

Paper ID V7I3-1170 · Pages 146-151 · Computer Science Engineering

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The underwater images are used for monitoring the underwater pipelines and aquaculture. However, obtaining a clear image is a difficult task due to light scattering and absorption issues. Due to these issues, a very low contrast, blur, and color distortion underwater image is obtained. To overcome these issues, enhancement algorithms have been designed. In the literature, conventional algorithms are used for enhancement purposes are histogram equalization, stretching, and power-law expression. However, these algorithms over-enhance the images if proper parameters are not taken under consideration. Therefore, swarm-based optimization algorithms have been used to determine the optimal values of these parameters. In this paper, we have designed an improved particle swarm optimization-based enhancement algorithm. In the proposed method, initially, pre-processing of the underwater image is done and its channels are extracted. After that, based on the mean values of the channels, the channels are classified into three types, namely, superior, intermediate, and inferior. Based on the superior channel, gain factors are determined and enhance the intermediate and inferior channels. Next, the power-law expression is applied to the inferior and intermediate channels to enhances its gamma value. The gamma value in the proposed algorithm is determined using an improved particle swarm optimization (PSO) algorithm. In the improved PSO algorithm, the initial population of the PSO algorithm is defined using a chaotic map algorithm therefore PSO algorithm does not fall into the local optimal solution. In the last, contrast-limited adaptive histogram equalization (CLAHE) for enhancement. The experimental results are performed for the standard dataset images and simulated in MATLAB. Further, qualitative and quantitative analysis is done for the proposed algorithm. The results show that the proposed algorithm is superior as compared to the existing algorithms

Keywords: Chaotic Map, Particle Swarm Optimization, Power-Law, Underwater Image Enhancement

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31 Evaluation of free radical scavenging activity and skin whitening potential of cyanobacteria

Paper ID V7I3-1250 · Pages 152-156 · Microbiology

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In day-to-day life, our skin is exposed to various chemicals, environmental pollution, and UV radiation which results in the early onset of photoaging and skin darkening. There is increased demand for skin whitening cosmetics for skin protection as well as aesthetic looks. The current skin whitening agents used in cosmetic industries have adverse effects on the skin. There is increased demand for natural active agents as a skin whitening agent. Cyanobacteria are ubiquitous in nature and quickly adopt different environments.1 Alga produce various secondary metabolites like carotenoids, phenolics, flavonoids, MAA (mycosporine-like amino acids) which are antioxidants in nature and have therapeutic potential in the pharmaceutical and cosmetic industry2. This study focuses on the isolation and characterization of cyanobacteria from different environmental niches. The antioxidant potential of whole-cell extracts of cyanobacteria was evaluated using DPPH inhibition assay and ABTS assay. Their potential application as a skin whitening agent was studied by anti-tyrosinase activity using the mushroom tyrosinase enzyme. The tyrosinase inhibition activity of cyanobacterial isolates was observed in the range of 30 to 40%. They have good antioxidant potential. They are rich in carbohydrate, protein, and lipid content indicate the potential of the cyanobacterial extracts so they have potential in the cosmetic and pharmaceutical industries.

Keywords: Antioxidant, Cyanobacteria, Skin Whitening, Tyrosinase Inhibition

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32 Domination of online education over traditional education

Paper ID V7I3-1246 · Pages 157-157 · Computer

Dr. Jitendra Kaur, Independent Researcher

Online versus traditional education

Keywords: E-Learning, Online Education

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33 An investigation into the causes behind gender inequality in India with a special focus on possible solutions and analysis of the progress already made

Paper ID V7I3-1255 · Pages 158-164 · Gender Inequality And Corporate Field In India

Nehal Sanghai, Research Scholar, Independent Research

This paper is conceptualized around gender inequality in India. It explores the causes of gender inequality and provides solutions for bridging the gap- one being financial literacy. It and also highlights several government initiatives undertaken to bridge the gap and empower females. It briefly summarises the outcomes gained from

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the interviews which were conducted with some of the women at senior-most positions in the Corporate sector in India. It explores and discusses the significant progress which has been made in the corporate sector and with the emergence of the service sector as a big contributor to India's GDP.

Keywords: Gender Inequality, Corporate Field, India, Women Entrepreneurs, Financial Literacy and Education, Government

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34 Origin of Universe and Life with the Theory of Stability and Law of Universal Neutrality

Paper ID V7I3-1245 · Pages 165-173 · Cosmology

Mithun S. Gowardhan, Doctrate Degree Holder, Christ Hospital, Chandrapur, Maharashtra

There must be a single cause or purpose behind the origin of the universe, the time dilation we observe and the origin of life on earth as well as the single minute activity we see in this universe. The world is chasing for decades these big questions. Hereby trying to explain reasonable answers to all these questions. To explain these questions I have taken all the proposed theories and laws under consideration in all of my thought experiments and the result I have found correlates to all the proposed formulas in different fields of science. The theory of stability and universal law of neutrality explains the valid answers to all these questions. With the help of these laws and the theory proposed, The field of science will be more close to the universe and this will eventually help mankind to build a better world in the future with revolutionary changes in all the fields of science.

Keywords: Origin of the Universe, Origin of Life, Laws of Universal Neutrality, Theory of Stability, Universal Neutrality, Fundamental Forces, Survival and Existence, Universal Point of View (UPV)

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35 Self-healing concrete: A bacterial approach

Paper ID V7I3-1252 · Pages 174-178 · Civil

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Self-healing concrete received an attention in previous few decades. This paper reviews the analysis conducted on self-healing in previous two decades. Self-healing approaches, differing types of healing agents used, incorporating procedures, and analysis techniques square measure highlighted during this paper. The development of cracking and crack- healing, materials used for crack-healing and also the strategies and techniques utilized throughout the method, the outcomes of experiments mentioned by numerous researchers from their work square measure highlighted. From the literature review, it had been terminated that the crack breadth sizes up to 0.1mm can be healed with self-produced self- healing mechanism, whereas, crack scrutinize to 1 mm are often well with autonomous self- healing mechanism. it had been determined that the

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healing potency was entirely smitten by the concrete exposure to corresponding surroundings, the kind of healing agent used, procedures and techniques followed.

Keywords: Self-healing, Cracks, Self-healing approaches, Durability

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36 Sustainable toilets by using lightweight precast concrete panels

Paper ID V7I3-1168 · Pages 179-182 · Civil Engineering

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With increasing concern over the excessive exploitation of natural aggregates, synthetic lightweight aggregate produced from environmental waste is a viable new source of structural aggregate material. The uses of structural grade lightweight concrete reduce considerably the self-load of a structure and permit larger precast units to be handled. BS EN 12504-4. 2004. Testing concrete. Determination of ultrasonic pulse velocity. The mechanical properties of a structural grade lightweight aggregate made with fly ash and clay will be presented. Indicated that water absorption of the green aggregate is large but the crushing strength of the resulting concrete can be high. The 28-day cube compressive strength of the resulting lightweight aggregate concrete with a density of 1590 kg/m^3 and respective strength of 34 MPa. Experience of utilizing the green lightweight aggregate concrete in the prefabrication of concrete elements is also discussed.

Keywords: Precast Concrete, Sustainable Toilet, Polystyrene, Light Weight Concrete

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37 Implementation of digital watermarking using hybrid decomposition for cryptography applications

Paper ID V7I3-1268 · Pages 183-186 · Electronics And Communication Engineering

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A method of depicting a novel image based on wave discrete conversion (DWT), Hessenberg decomposition (HD), and single-digit decomposition (SVD) is suggested in this paper. The embedding process is done first and in this process, the host image deteriorates into multiple sub-bands with multilevel DWT, and the resulting coefficients are used as inputs for Hessenberg decomposition. Simultaneously, the watermark works on SVD. The watermark is finally attached to the host image with the measurement feature. This proposed method is compared to other research activities under various spoof attacks, such as filter, noise, JPEG compression, JPEG2000 compression, and sharpening of the attack. The test results show that the proposed image display has a good trade-off between durability and invisibility even if the watermarks are large in size.

Keywords: Discrete Wave Transformation, Singular Value Decomposition, Hessenberg Decomposition

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38 Fabrication of mini circular saw machine

Paper ID V7I3-1251 · Pages 187-191 · Mechanical Engineering

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This research paper explores a Fabrication of a Mini Circular saw machine for cutting material like wood. A circular saw is a power-saw using a toothed or abrasive disc or blade to cut different materials using a rotary motion spinning around an arbor. It is a tool for cutting many materials such as wood, masonry, plastic, or metal and may be hand-held or mounted to a machine. In woodworking the term "circular saw" refers specifically to the handheld type and the table saw and chop saw are other common forms of circular saws. Circular saw blades are specially designed for each particular material they are intended to cut and in cutting wood are specifically designed for making rip-cuts, cross-cuts, or a combination of both. Circular saws are commonly powered by electricity.

Keywords: Saw Blade, Circular Saw Machine, DC Motor, Push Button, Shank Adapter

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39 An analysis of economic and public policy measures taken by the Indian government to fight COVID-19 and the steps forward

Paper ID V7I3-1256 · Pages 192-198 · Economics

Nehal, Research Scholar, Independent Research

This research paper discussed the economics and public measures taken by the Indian Government and Reserve Bank of India (RBI) to fight the COVID-19 in detail. It further highlights the impact of these measures and how the country had shaped up very well with digital adoption and initiatives covering points such as Large inflow of funds through the FPI/PE route, adoption of digital technology, and the vaccination drive. It then explores and elaborates on the plan of action and steps which can be taken to fight and overcome the second wave of COVID which is emerging in the country.

Keywords: COVID-19, Indian Government, Economic Measures, Digitalization, Vaccination Drive

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40 AMUNET: Advanced multi-utility network evaluation toolkit

Paper ID V7I3-1265 · Pages 199-206 · Electronics & Communication Engineering

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Cybercrime is the greatest threat to every individual in the world. In the upcoming years, it might become a serious threat to every person, place, and organization around the globe. During this pandemic situation, hackers exploited the opportunity to attack vulnerable networks of many organizations and breached their data. This proves that we are also in the midst of an epidemic of cybercrime. To solve this problem, we are proposing an AI-powered security device called AMUNET (Advanced Multi Utility Network Evaluation Toolkit). It uses artificial intelligence and machine learning to detect various problems in a network and protects against various vulnerabilities and exploits. It can even monitor live network packets and detect intrusions and take steps to prevent intrusion attacks.

Keywords: AI in Cybersecurity, IDPS using Machine Learning, Auto Vulnerability Scanner, Network Security

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41 Smart car monitoring system

Paper ID V7I3-1266 · Pages 207-209 · Information Technology

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In today's 21st-century road safety has become a crucial part of a human's life. Nowadays the number of vehicles is increasing day by day and so the amount of road accidents is also increasing. There are different causes of these accidents such as drunk and drive, overspeeding, the distraction of driver, drowsiness of the driver, avoiding safety gears like seat belts and helmets. So, in order to provide a solution, we have come up with an idea that will help solve this problem. This system has two foremost features. Firstly the system will make sure that if the driver is drunk, a warning message will be displayed on LCD. In spite of the fact if the driver continues to drive a car, there will be fuel cut off which will make the car slow and eventually stop the car. Secondly, if any accident occurs in the middle of the journey then an emergency message will be sent to the nearby Hospital, Police station, and to a relative of the victim. This system provides a way to avoid road accidents which will reduce the number of road accidents.

Keywords: GSM Module, GPS, ARDUINO UNO R3, MQ3 Alcohol Sensor, Ultrasonic Sensor

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42 What kind of algorithms are applied in search engines?

Paper ID V7I3-1263 · Pages 210-213 · Computer Science

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This paper aims to make readers understand about types of algorithms used in different search engines and e-commerce websites

Keywords: Computer Science, Data Science, K-NN, K Nearest Neighbour Algorithm, Predictions

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43 Modeling and simulation of Load Frequency Controller using Genetic Algorithms Technique

Paper ID V7I3-1271 · Pages 214-218 · Electrical Engineering

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Jay Tandel, Assistant Professor, Mahatma Gandhi Institute of Technical Education and Research Center, Ethan, Gujarat

In an interconnected multi-area power system, as a power load demand varies randomly, which results in the variation of frequency, thus leading to load frequency control problem (LFC). The main goals of Load Frequency Control (LFC) are, to hold the frequency and the desired power output in the interconnected power system at the scheduled values and to control the change in the tie-line power flow between control areas. This research involves the load frequency control is done by PI and PID controller, which is a conventional controller. In order to overcome drawbacks, a new Genetic Algorithm-based controller is presented to quench the deviations in the frequency and the tie-line power due to different load disturbances. The proposed controller guarantees the stability of the overall closed-loop system. Simulation results for a real three-area power system prove the effectiveness of the proposed LFC and show its superiority over a classical PID controller and a PI controller.

Keywords: Load Frequency Control (LFC), Integral Controller, PID Controller, Genetic Algorithm (GA)

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44 Generation of different waveforms to stimulate the body mechanism

Paper ID V7I3-1289 · Pages 219-224 · Electronic

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This paper discusses some of the advances and limitations of the field of Functional Electrical Stimulation (FES) and recent advancements in the field of stimulation and how electrical signals can be utilized for pain relief and to cure other diseases of the human body by using stimulation. This paper aims to create advancement in stimulators and also focuses on their advantages as compared to conventional medicine. More one is also being for it that how on the electrical signal can be utilized for treating various human disorder and disease.

Keywords: Stimulators, Waveform generation, FES, TENS

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45 Micropiles for mitigation of landslide in the residential area of North Sikkim region

Paper ID V7I3-1262 · Pages 225-230 · Civil Engineering

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The vulnerability of large landslides takes place due to many anthropogenic and natural factors. Frequent collapse and triggering of landslide take place in active foothills of the Himalayan region. The main primary factors causing destabilization of the slope include rainwater infiltration in the topmost weathered layer, earthquake forces, and local inhabitant activities. A vulnerable landslide zone having a residential area is envisaged in ‘Mangan’, North Sikkim, India. An interesting factor affecting the slope stability in the area under study has been noticed that in addition to rainwater and earthquake forces; the other forces being sewer line carrying wastewater outfall of households across sections. The long-term disposal and subsequent accumulation of sewer water caused an increase in pore space and overall density of soil due to saturation, rainwater additionally reduces cohesion of overlying mass causing slip-off from the parent strata. Preliminary stability analysis has been carried out for critical sections using LEM slide software and the effect of intermediate micropiles (Zinc-Chromium coated stainless steel) has been evaluated using the FEM technique. It has been seen that the top 100 m of slant length of the slope is quite unstable. Accordingly, intermediate series of micro piles have been installed with profiled benches in the unstable slope. Superstructure loads from the residential zone lying on the slope profile and vehicular loads at the road level have been considered for severe conditions. Furthermore, the location and length of micropile have been optimized based on concentrated stresses and strength reduction factors. It has been observed that there is a 48.5% and 37.8% increase in safety factors under static conditions and seismic conditions respectively. Analysis shows that micropiles work effectively in controlling local displacements due to sliding and add global stability to the affected region.

Keywords: Micropile, Local Displacement, Static Condition, Seismic Condition, Concentrated Stresses, Zinc-Chromium Coated Stainless Steel, Earth Movement, Mass Movement

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46 data analysis and IoT based monitoring system for smart agriculture: A review

Paper ID V7I3-1272 · Pages 231-235 · Agriculture

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Dr. B. Kanisha, Professor, SRM Institute of Science and Technology, Chennai, Tamil Nadu

Agriculture production has a high dependency on soil, water, and climatic factors which increasingly need to be utilized efficiently. The most challenging chore in the agriculture sector is to improve plantation productivity and quality of farming without continuous physical monitoring to meet the rapidly growing demand for food. The smart agriculture can be adopted which offer high precision crop control, collection of useful data and automated farming technique. The paper accentuates the need for the application of IoT and data analysis in India's agriculture to ensure sustainable development of agriculture with food security. This work presents an intelligent farm monitoring system that monitors the humidity and temperature of the soil. After processing the observed data it takes necessary action based on these values without human mediation.

Keywords: Smart Agriculture, IoT (Internet of Things), Data Analysis, Intelligent Farm Monitoring System

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47 Deep Learning for real applications

Paper ID V7I3-1300 · Pages 236-238 · Deep Learning

Vishal Nandigana, Professor, IITM, Chennai, Tamil Nadu

In this paper, we provide a new artificial intelligence based deep learning formulation Distributed Artificial Neural Network (DANN) for real applications, AC placement in a room, design of new car doors from existing 15 given car doors, with six orders of magnitute speed up in computational time and need an everyday use laptop, not necessiating high end super computer servers for real application design and analysis. Further, the accuracy of the real application solution showed 99.9% accuracy and comparable to the conventional existing engineering applications software results.

Keywords: Artificial Intelligence, Deep Learning, DANN, Product Design, Generative Design, AIDesign

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48 Accepting the students of higher education as a consumer and its impact on the success of educational institutions

Paper ID V7I3-1274 · Pages 239-241 · Management

Nand Kishore Sharma, Research Scholar, Purnima University, Vidhani, Rajasthan
Dr. Mansi Mathur, Associate Professor, Purnima University, Vidhani, Rajasthan

The main purpose of this study is to find out the factors related to student satisfaction and dissatisfaction especially with higher studies and to find if these reasons differ in their effect on students who are satisfied with their educational institutes. If we take some examples of various commercial sectors and industries it

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indicates that there are common factors that affect various employees relative to their satisfaction and dissatisfaction with their work.

Keywords: Student, Consumer, Satisfaction, Education, Higher Studies, Goals, Image, Role of Educational Institutes

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49 Cash flow analysis of Khadim India Limited and Liberty Shoe Limited: A comparative study

Paper ID V7I3-1291 · Pages 242-247 · Commerce

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The analysis of the cash flow statement is an important part in the evaluation of a financial statements, in order to analyze its financial performance, position and thereby make informed decisions. The main focus of this study is to analyze the cash flow statement of KHADIM INDIA LIMITED and LIBERTY SHOES LIMITED. To analyze the same Mean, Cash Flow based Ratios and Trend Analysis were used as research tools. From the analysis of the companies for a period of 5 years since 2015 to 2020, it has been observed that the cash flow of both the companies are fluctuating over the period. Although both the companies had shown a good cash flow position throughout the observation, but certainly there is room for improvement in the forthcoming years. The overall study has revealed that the cash flows of Khadim India Limited is slightly at a better position when compared to Liberty Shoes Limited during the five-year comparison.

Keywords: Cash flow, Financial, Performance, Decisions

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50 Teacher and student relationship for student’s career choice

Paper ID V7I3-1294 · Pages 248-251 · Psychology

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The relationship between teacher and student plays a key role in laying a clear and congruent path for a student in choosing their career. The teacher understands each of the student o the maximum extent and the influence of teacher have an impact on the career choice of students. The observation of teachers about students’ behavior and attitude helps the teacher to guide the students for their career choice.

Keywords: Leadership, Teacher, Student

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51 Customer relationship management: Existing challenges and software-based solutions

Paper ID V7I3-1295 · Pages 252-254 · Software Engineering

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The world is growing faster than ever and to keep up with the times, businesses have to keep up with their ever-evolving clients. This is difficult when there are a multitude of technologies to choose from and none of them offer the precise control that is essential. The aim is to provide a level of convenience to businesses (small to large scale) to save time and have an integrated environment for purchase, inventory, and sale. Completely customizable without a technical background to match the required workflow.

Keywords: Customer Data, Service, Management, Relationship, Business, Efficiency, Relationship Management

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52 Observations on the Pell Equation x²=3(y²+y)+1

Paper ID V7I3-1296 · Pages 255-260 · Number Theory

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This paper concerns with the problem of obtaining non-zero distinct integer solutions to the positive pell equation represented by the binary quadratic equation x^2=3(y^2+y)+1. A few interesting relations among the solutions are presented. Further, by considering suitable linear combinations among the solutions of the considered hyperbola, the other choices of hyperbolas, parabolas, order Ramanujan numbers, sequence of diophantine 3-tuples with the suitable property are presented. A general formula for generating a sequence of integer solutions based on the given solution is illustrated.

Keywords: Positive Pell Equation, Binary Quadratic, Hyperbola, Parabola, 2^Nd Order Ramanujan Numbers, Sequence Of Diophantine 3-Tuples

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53 Deep Learning for Turbulence Modeling

Paper ID V7I3-1306 · Pages 261-263 · Deep Learning

Vishal Nandigana, Professor, IITM, Chennai, Tamil Nadu

In this paper, we provide a new artificial intelligence based deep learning Distributed Artificial Neural Network (DANN) for turbulence modeling applications, including flow past triangle, laminar flow, flow past cylinder, turbulence dynamics modeling, and flow past a real 3D product, sedan car, of real product design geometry and dimensions. The results showed six orders of magnitute speed up in computational time and need an everyday use laptop, not necessiating high end super computer servers for turbulence dynamics simulations for

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3D product design industry geometries. The accuracy of the DANN use showed 99.9% accuracy and comparable to the conventional existing engineering applications software results. The DANN use software is patented and industries approved and commercially available over https://aidesign.today for product design and analysis real world product industrial use. The software is AIDesign software.

Keywords: Turbulence modeling, Sedan car simulations, Artificial Intelligence, DANN, AIDesign

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54 Sustainable toilets by using lightweight precast concrete panels

Paper ID V7I3-1311 · Pages 264-266 · Civil Engineering

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The objective of this project is to designing and managing a self-sustaining toilet for implementation in rural areas of India, the toilet will be built out of low-cost and readily accessible materials and require little to no water, no electricity, and minimum maintenance cost and management. I work for reducing the total cost of the toilet and making the proper management of sensitization in the rural areas. Cast in-situ construction is time taking process as compared to precast concrete panel construction so precast concrete panels are very useful for time-saving and overall cost reduction of toilet construction.

Keywords: Precast Concrete Panel, Light Weight Concrete, Cost Reduction, Setting Time, Time Management

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55 Deep Learning for engineering applications

Paper ID V7I3-1286 · Pages 267-271 · Deep Learning

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In this paper, we formulate a new artificial intelligence based deep learning formulation to solve engineering applications in domains, heat transfer (2D,3D), strength of materials (2D,3D), design of machine elements, 3D component analysis, 3D assembly analysis, fluid dynamics (2D,3D), Kinematics/Vibrations/control (2D, 3D). Our deep learning based Distributed Artificial Neural Network (DANN) formulation showed six orders of magnitute speed up in computational time and needed an everyday use laptop, not necessiating high end super computer servers for engineering applications analysis. Further, the accuracy of the engineering solution showed 99.9% accuracy and comparable to the conventional existing engineering applications analysis results.

Keywords: Deep Learning, Artificial Intelligence, Engineering Applications, Software

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56 Solar panel embedded window blinds integrated with battery energy storage for home systems

Paper ID V7I3-1305 · Pages 272-278 · Multidisciplinary

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India along with the world is facing an 'Energy Crisis'. There is a significant gap in the demand and supply for electricity. In order to meet this situation, a number of options are being considered with a large focus on renewable energy research & development. Solar energy is the idle solution amongst the plethora of renewable energy sources available. Solar energy can be used to meet the demand for electricity with the help of photovoltaic systems. One of the major constituents of a photovoltaic system is the photovoltaic modules, also called solar panels, which help convert the energy obtained from sunlight into electricity. Photovoltaic System installations across the globe have accelerated dramatically in the past but at the same time are facing the challenges like land scarcity and solar irradiance. The proposed system focuses on increasing the number of solar panels installed to generate electricity within a building without modifying the existing resources. Apart from harvesting solar energy from the panels installed on the roofs, the same can also be done using windows and hence eliminating space scarcity. The proposed system consists of solar panels embedded on window blinds. The system aims to automatically track the sun's position throughout the day. The position of the solar panels attached to the blinds is adjusted to optimal angles to generate electricity. The obtained energy is then stored in a battery and further converted to alternating current for various applications.

Keywords: Renewable Energy, Solar Energy, Photovoltaic Module, Window Blinds

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57 Integrated aquaculture with animal components and horticulture crops: Role of women in integrated aquaculture for household.

Paper ID V7I3-1309 · Pages 279-282 · Aquaculture

Tanushree Chakrabarti, Research Scholar, University of Burdwan, Bardhaman, West Bengal
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Integrated farming system is a valuable approach to addressing the problems of sustainable economic growth for farming communities. The integration of aquaculture with duck and poultry birds in pond site along with crop farming offers greater efficiency in resource utilization with production of addition food and income. The system involves recycling of waste or by products of one farming system as inputs for another compatible system and ensures efficient utilization of available farm space for maximising production. Women's role and participation has often been ignored partly due to socio-cultural taboo against them. The present paper therefore, highlights that fisherwomen play a critical role in sorting of fish fingerlings, feeding of animals reared in ponds and of vegetable and fruit trees. Active help from local governments and mass literacy campaigns are very much needed to upgrade the knowledge of fisherwomen and skill.

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Keywords: Aquaculture, Fisherwomen, Fingerling, Fertilizer, Animal husbandry

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58 Automatic sanitizer dispenser with temperature screening

Paper ID V7I3-1313 · Pages 283-285 · Embedded Systems

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As the whole world is dealing with the Covid-19 pandemic the most significant solution to this is to sanitize hands and monitor the temperature. We have designed a system where we can sanitize our hands and monitor the temperature without any contact with the machine. Also, sanitizing spray is inserted for the objects sanitization

Keywords: Arduino Nano, MLX90614 Sensor, IR Sensor, Covid-19, Sanitizer

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59 A survey paper on cross-language information retrieval

Paper ID V7I3-1299 · Pages 286-290 · Information Retrieval

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As of now, the quantity of individuals getting to data over the web is expanding quickly step by step. An immense measure of data on the web is prepared in various dialects which can be gotten to anyone across anyplace whenever required. Looking for data is not any more restricted to the local language of the client, more outstretched to different dialects. This is been the reason for Cross-Language Information Retrieval. Here it manages to recover relevant data put away in a language that is unique in relation to the languages of the client's question. Multi-lingual data is flooding absurd these days. This variety of pages, almost in each famous language on the planet empowers the client to get to data in various languages on their decision. Yet, now and again the client is trying to compose their solicitation in a language they are familiar with, this is the reason that gives Cross-Language Information Retrieval (CLIR) for web applications useful. In this paper, we will discuss the issue identified with language interpretation. We in the paper display a strategy to certainly resolve ambiguities utilizing dynamic gradual grouping in Kannada to English cross-language data recovery. In this system, an inquiry in Kannada is first converted into English by looking into Kannada-English word reference, at that point reports are recovered dependent on space vector recovery for deciphered question terms.

Keywords: Query Translation, Ambiguity, Cross-Language Information Retrieval, Dictionary Translation, Dual Translation, Inquiry, Clusters

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60 Secondary traumatic stress and subjective well-being among frontline workers during the COVID-19 pandemic

Paper ID V7I3-1312 · Pages 291-304 · Psychology

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The Covid-19 pandemic has deeply affected one's mental as well as physical health. The front-line healthcare workers have been adversely impacted while having to work in a high-stress and trauma-exposed environment. They faced emotional and physical strain and the study attempts to understand the secondary traumatic stress in times of a global emergency and its impact on their subjective well-being. The researchers of the current study contended that secondary traumatic stress was inversely related to positive affect in frontline health care workers. A positive correlation was also expected between secondary traumatic stress and negative affect. This was studied among a sample of 200 front-line healthcare workers. The results of the current study provided significant evidence to support the proposed hypothesis. A highly significant regression was found between secondary traumatic stress and negative affect.

Keywords: Secondary Traumatic Stress, Subjective Well-Being, Covid-19, Pandemic, Frontline Workers, Positive Affect, Negative Affect

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61 Traffic sign recognition and classification using CNN

Paper ID V7I3-1318 · Pages 305-308 · Artificial Intelligence And Machine Learning.

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We investigate the present status of traffic sign classification and recognition talking about what makes it a particular issue of visual item characterization. With noteworthy cutting-edge results, it is not difficult to fail to remember that the area stretches out past explained datasets and ignore the issues that should be looked at before we can begin preparing classifiers. We talk about such issues, give an outline of past work done, go over openly accessible datasets, and present another one. Following that, arrangement tests are directed utilizing a solitary CNN model, further than utilized beforehand and prepared with dropout and softmax. We apply it over different datasets from Germany and Belgium, their convergences and association, beating people, and other single CNN designs for traffic sign characterization.

Keywords: Traffic Sign Classification, Traffic Sign Recognition and Classification, Traffic Sign Classification Using CNN, Road Sign Classification, Traffic Road Sign Detection

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62 Automatic temperature sensing with detail collection system using LabVIEW

Paper ID V7I3-1336 · Pages 309-313 · Electronics And Communication Engineering

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In this situation of the Covid-19 pandemic, it is advised by the government to check the body temperature as well as a collection of details of every person before entering the building. The conventional method for doing so is by manually checking the temperature using an infrared thermometer and the details are collected on a register. This system involves the risk of transmission of infection. In order to overcome the above-mentioned problem, this paper proposes the way in which the temperature and the details are collected automatically without any physical contact. MLX90614 is an infrared temperature sensor that is connected to the gate of the building in order to grant access or denial of entry. The details of people are collected using LabVIEW software. This paper comprises three sections: Data collection using LabVIEW, Temperature sensing using MLX90614, and Door access control using DC Motor and driver unit.

Keywords: Covid-19, Infrared Thermometer, Arduino UNO, MLX90614, DC Motor, LabVIEW

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63 Glacial lakes outburst floods GLOF in the Indian Himalayas – A geotechnical resilient exemplification of hazard assessment

Paper ID V7I3-1344 · Pages 314-321 · Civil Engineering

Arghadeep Dasgupta, Research Scholar, Road Building International (India) Pvt. Ltd., New Delhi, Delhi

A glacial lake outburst flood occurs when the dam blocking the glacier's path collapses. The dam may comprise glacier ice or a terminal moraine, eroded material from the sides and bottom of a valley, which the glacier pushes to the front. The collapse may occur due to erosion, build-up of water pressure, an avalanche, heavy snow, earthquake, volcanic eruption under the ice, or if a large portion of a glacier breaks off and massively displaces the waters in a glacial lake at its base. When the outburst occurs, water dammed by a glacier or a moraine is released. Glacial lakes may hold millions to hundreds of millions of cubic meters of water. Catastrophic failure of the containing ice or glacial sediment can release this water over a period of minutes or a few days.

Keywords: GLOF, Glacial Lake Outburst Flood, Moraines, Glacial Lake Outburst Hazard Assessment, JöKulhlaup

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64 A comparative study and classification on different underwater image enhancement techniques

Paper ID V7I3-1358 · Pages 322-325 · Computer And Information Science - Image Processing

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Underwater images play a vital role in marine engineering, marine research etc. These images can be used for control of underwater vehicles, study of corals, fishes and other specious. Underwater images suffer poor visibility and some important details may loss because of scattering and absorption. Obtaining a clear underwater image is very important and it is difficult too. Underwater image enhancement has been an active research topic over many years and several techniques has been proposed. This paper introduces a study on various techniques used to enhance the underwater images and classified the techniques into four categories.

Keywords: Underwater Images, Image Enhancement, Enhancement Techniques

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65 Design and fabrication of thermosyphonic water purification system

Paper ID V7I3-1360 · Pages 326-334 · Mechanical Engineering

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Lack of clean drinking water in rural areas is a huge problem during the occurrences of floods and other environmental disasters. Often, it takes a long time to transport potable water to these areas resulting in health issues for the residents. In this research, a solar power-based water purification system using PCM to produce clean drinking water in flood-affected areas or remote areas where potable water is difficult to obtain is proposed. The purification system available is not easy to get for poor people. So we are using a different technique for water purification system is Thermosyphon solar distillation technique, which is very cheap and convenient. These Thermosyphon purification system is a modification of conventional solar still but the efficiency achieved is much higher then the conventional solar still.

Keywords: PCM-Phase Changing Material, Purification, Parabolic Concentrator, Evaporation Solar energy, Thermosyphon loop.

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66 Hysteresis Current Control Technique for STATCOM to Operate and Mitigate the Power Quality Issues for Grid Interfaced with Wind Power System

Paper ID V7I3-1368 · Pages 335-340 · Electricals

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Power quality can be considered by the appropriate supply voltage and an effective and reliable process for electrical energy delivery to consumers. Owing to increased sensitivity of applied receivers and power controls processes, many customers may experience severe electrical and technical consequences of poor power quality. Low power factor, harmonic pollution, load imbalance, fast voltage variations are some common issues that are caused due to insufficient power supply. Capacitor banks, FACTS devices, harmonic filters, Static Voltage Compensators, STATCOM (Static Synchronous Compensator) are the solutions to achieve enhanced power quality. The proposed scheme mainly focuses on injecting wind power into an electric grid as a method of running a wind generating system. This paper proposes STATCOM - Control scheme connected to PCC (Point of Common Coupling) with BESS (Battery Energy Storage System). This model's simulation is conducted in MATLAB/ Simulink. The simulation results disclose enhanced power quality, improvement in voltage profile, and less distortion in the harmonic waveform.

Keywords: Power Quality, Renewable Energy, PCC (Power of Common Coupling), STATCOM (Static Synchronous Compensator), BESS (Battery Energy Storage System).

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67 The Physiological Challenges of Yeong-Hye In Han Kang's "The Vegetarian"

Paper ID V7I3-1328 · Pages 341-344 · English

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"The Physiological Challenges of Yeong-hye in Han Kang's The Vegetarian" discusses on how a protagonist's sudden decision to stop eating meat altered her own-self physically. It was the recurring dream that occurred to Yeong-hye continuously and strenuously, that made her avoid eating meat and food altogether. Throughout the novel, she spoke nothing but her act of defiance spoke louder than anything else. Yeong-hye had to battle her wars physiologically in The Vegetarian against vegetarianism, eroticism, sexual harassment, familial conflicts, violence both internally and outwardly, misinterpretations, schizophrenia, social, cultural and the traditional norms in order to conquer in becoming a full-fledged plant. The protagonist fought the battles strenuously, with determination and consistency. She might have failed, but not her resolution. It was rather a searing, scary, bizarre, terrific and an upsetting novel, in which the loss of appetite of the protagonist to eat food increases the appetite of the readers to ponder upon the lives' choices on a phenomenal level.

Keywords: Physiological, Challenges, Vegetarian, protagonist, Schizophrenia, Insomnia, Mongolian Mark, Metamorphoses, Eroticism.

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68 The three horizons of stage-gated growth and innovation to future-proof the businesses

Paper ID V7I3-1334 · Pages 345-352 · Innovation And Product Development

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The Three Horizons of Innovation model, known as the “gold standard” strategy framework by McKinsey brings growth and innovation together. It also helps organizations to manage the varying visions and guide their teams to know about the goals that are planned over time including what can they expect in terms of results or profits. The model is a great fit for portfolio management as the framework visualizes the company’s future and provides a common language to convey the innovation culture in a simple way. On the other hand, the Stage-Gate® model leads to faster and better innovation with its subset “Scrum” framed inside a structured innovation process benefitting the internal and external stakeholders. It helps to approach the new product development (NPD) with an accelerated model that is adaptive and flexible for managing products. The purpose of this review is to provide a constructive framework for the companies to respond based on market expectations. Furthermore, the paper critically presents several theoretical and practical implications linking the underlying business strategy. The details of this multi-characteristic approach are outlined in this article.

Keywords: Growth, Innovation, Strategy, NPD, Horizon, Stage-Gate, Agile, Scrum, Ideation, Launch

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69 A comparative analysis of interior-point methods in convex optimization

Paper ID V7I3-1347 · Pages 353-358 · Engineering Optimization

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Interior point methods or sometimes called Barrier methods are a class of optimization algorithms that are useful in solving inequality constrained linear or nonlinear programming problems. The optimization problem with inequality constraint is solved by using the Newtons method by converting it into series of equality constraints or KKT conditions. This paper presents the comparative study of the classical logarithmic barrier method and the primal-dual interior-point method along with their convergence analysis. A kernel function-based interior point method for second-order cone problems is also examined. The computational complexity of the algorithms is also discussed along with the implementation issues.

Keywords: Interior Point Methods, KKT Condition, Kernel Function

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70 Design and implementation of panic alarm during disaster in extreme situations using Proteus Software

Paper ID V7I3-1369 · Pages 353-357 · Electronics And Communications Engineering

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This paper presents the design and implementation of panic alarm used in this project during disaster in extreme situations. It is used for observing of sudden problems which can come from different types of natural as well as man-made disaster. The aim of this project is to observe the different emergencies and to locate the place through panic alarm device. The stimulation has also been done by using proteus software.

Keywords: Buzzer, IC-555, Proteus Design Suite 8.10

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71 Mechanical Characterization of Al 8011 Aluminium alloy reinforced with Silicon carbide and fly ash

Paper ID V7I3-1373 · Pages 358-363 · Composite Materials

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Aluminium metal matrix composites are gaining widespread acceptance for automobile, aerospace, agriculture farm machinery, defence sector and many other industrial applications because of their essential properties such as high strength, low density, good wear resistance, ease of production and adaptability to modification compared to any other metal. The present study deals with the addition of reinforcements such as fly ash, silicon carbide to the Aluminium matrix in various proportions. Each reinforced material has an individual property which when added improves the properties of the base alloy. An effort has been made to review the different combinations of the composites and how they affect the properties of the different alloys of aluminium. Comprehensive knowledge of the properties is provided in order to have an overall study of the composites and the best results can be employed for the further development of the Aluminium reinforced composed. The investigation shows that Al metal matrix composites can be replaced with other conventional metals for better performance and longer life

Keywords: Aluminium; Reinforcement; Stir Casting; Silicon Carbide; Fly Ash.

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72 Neural Networks based solution for Door Automation

Paper ID V7I3-1361 · Pages 359-366 · Neural Networks

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Face Recognition is one of the most common biometric strategies which has gained popularity because of the accuracy and security. This paper presents the implementation of a Convolution Neural Network architecture for door automation. This model is devised to overcome the disadvantages of a traditional door system and other methods such as door automation using Bluetooth, figure prints, passwords, or retinal scans. It allows the authorized people to gain access to the house by face recognition. The proposed system makes use of convolution neural network architectures and RaspberryPi. The ResNet architecture [6] is used to implement face recognition and runs on RaspberryPi. The images of the residents of the house will be used to train the model. If the person is a resident of the house, the face will be recognized and the lock will open, else it will be recognized as a human and an alarm will ring and an email alert consisting of the image of the person in front of the door will be sent to the owner. It has numerous advantages as it is user-friendly especially for senior citizens, lesser maintenance, does not require the residents to carry the keys, and reduces the threat of robbery

Keywords: Convolution Neural Network, face recognition, Smart Door Automation, ResNet architecture

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73 Design and optimization of Aluminium alloy wheel used in automobiles

Paper ID V7I3-1374 · Pages 364-368 · Engineering

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Wheels are the main component of the car. The wheels with the tyre provide the better cushioning effect to the car without an engine car may be towed but without wheels, the car cannot be towed. The main requirement of the vehicle is it must be perfect to perform its all function. Reverse engineering is not a method to redesign the old component. The wheels have to pass the different test for best performance like static and vibration analysis etc. design is an important manufacturing activity which provides the quality of the product the 3-D model of alloy wheel design using the technology reverse engineering and CATIA V5 software and further, it was imported to ANSYS. The static fatigue and dynamic analysis were performed. This was constrained in all degrees of freedom at the bolt. Similarly based on the weight, the thickness of the rim and spoke are varied to attain different mos. Also changing the number of spoke wheel models is prepared and analysis is done. From the analysis done in the project, it can be concluded that the wheel made of magnesium alloy is better as compared to Al alloy1 wheels. As the stresses developed in the magnesium wheel are less as well1 as the S-N1 curve of the Mg wheel is better under load condition.

Keywords: Alloy wheel, CATIA V5, ANSYS, Stress analysis, reverse engineering.

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74 Intelligent Electronic Toll Collection System on Highway (Android App)

Paper ID V7I3-1378 · Pages 369-373 · Computer Engineering

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In few years, the number of vehicles is getting increased day by day due to this the amount of traffic in most of the roads are increased. There are some of the highway roads, where the people need to pay the toll tax. Most of the toll plazas are manually worked which is time consuming process and increases heavy traffic, fuel wastage and other issues. To automated this process, we propose a new Toll Collection Android App which uses to pay the toll tax using them mobiles and simply scan generated QR code on toll plaza. The proposed system provides fast result as compare to traditional systems. Thus, the vehicles won't have to stop at toll plaza to pay toll which would save the time and efforts and reduces long queues on toll plaza and traffic.

Keywords: Android Application, toll plaza, QR code, cashless transaction

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75 Speech based Emotion Recognition using CNN Classifier

Paper ID V7I3-1372 · Pages 374-377 · Computer Science

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Communication through voice is one of the main components of affective computing in human-computer interaction. In this type of interaction, properly comprehending the meanings of the words or the linguistic category and recognizing the emotion included in the speech is essential for enhancing the performance. In order to model the emotional state, the speech waves are utilized, which bear signals standing for emotions such as boredom, fear, joy and sadness. This project is aiming to design and develop speech based emotional reaction (SER) prediction system, where different emotions are recognized by means of Convolutional Neural Network (CNN) classifiers. Spectral features extracted is mel-frequency cepstral (MFCC). Librosa package in python language is used to develop proposed algorithm and its performance is tested on taking Ryerson Audio-Visual Database of Emotional Speech and Song (RAVDESS) samples to differentiate emotions such as happiness, surprise, anger, neutral state, sadness, fear etc. Feature selection (FS) was applied in order to seek the most relevant feature subset. Results show that the maximum gain in performance is achieved by using CNN.

Keywords: CNN, Audio Feature Extraction, Librosa, RAVDES, SER, MFCC

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76 Analyzing the sentiment through Twitter data

Paper ID V7I3-1341 · Pages 378-381 · Information Technology

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Social media is widely used for interactions among people in which they create, share, exchange information, opinions, and thoughts. Some social media websites as emerged as one the platforms to raise users' opinions and influence the way any business is commercialized. These days, the applications of such analysis can be easily observed using public elections, movie promotions, brand endorsements, and many other fields. Opinions of people matter a lot to analyze how the propagation of information impacts the lives in a large-scale network like Twitter. In this paper, we can see different feature sets and machine learning classifiers to determine the best combination of sentimental analysis of tweets. The primary aim is to explore possible methods for analyzing sentiment scores in a noisy Twitter stream. This paper reports on the design of sentiment analysis, extracting vast twitter data such as tweets. We can also see various techniques to carry out a sentiment analysis on Twitter data in detail.

Keywords: Twitter, Sentiment Analysis, Opinion Mining, Machine Learning

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77 Real Estate Recommendation System

Paper ID V7I3-1367 · Pages 382-385 · Computer Engineering

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Technology has advanced in the field of Online Real Estate Marketing, market trends and advances in various techniques such as data science, editing and filtering algorithms, machine learning is growing rapidly These days, however, web sites for sale are paying a lot of money to get their services. Our proposal The web site overcomes this problem and provides customers with free services so that they can access the information you need and to measure future market trends and technologies in a friendly manner. Ours The website is basically an online service where the user will be able to buy / rent / sell properties as they wish Focus on building an easy-touse web application. This can help people to communicate easily with buyer / seller / employer, as this program uses the KNN process to process user queries, to identify the key words, align them with Knowledge Base and respond with real results. To make the answers more understandably, answers are made using classification techniques and produce non-textual responses to can be easily seen by users. The program also uses machine learning capabilities to process data such as price of buildings for years to come based on previous data records

Keywords: Real Estate Recommendation

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78 Employing project work to enhance aspects of learner autonomy for tertiary EFL learners

Paper ID V7I3-1381 · Pages 386-395 · Learner Autonomy In Efl

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The study aims to explore the enhancement of learner autonomy through the integration of the project work in the existing syllabus. The study was conducted with thirty-four first-year non-English majors in a university in the north of Vietnam. In the study, learner autonomy is conceptualized as a multi-faced concept with four aspects: technical, psychological, political-critical, and socio-cultural. Learner autonomy was researched based on the empirical evidence of its benefits to learners in language learning. Meanwhile, project work was argued to be potential to promote learner autonomy. As a result, eight different projects created by the students were implemented in the learning process. The study employed action research approach with three different data collection tools (questionnaires, interviews, and the teacher's diary). Content analysis was applied for the data in the study. The findings reveal that the enhancement of learner autonomy was evident in all the four aspects. Technically, the students were found to have more access to the learning resources and used more learning strategies. Psychologically, the students were identified to exhibit highly positive attitudes and to be motivated in learning. Political-critically, the students reported that they had more choices in learning contents and methods. Socio-culturally, the students demonstrated more interaction and collaboration.

Keywords: Learner Autonomy, Aspects of Learner Autonomy, Promoting Learning Autonomy, Project Work, Action Research, Non-English Majors, English as a Foreign Language

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79 IoT based smart home security system

Paper ID V7I3-1384 · Pages 396-399 · Computer Technology

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The research paper based on home & industrial security ,the system are already installed in various industries but they have some drawback. We are all the student of final year computer technology we are try to overcome the problem that are facing the industry in any accident or harmful damage like gas leakage & fire.

Keywords: Home and Industrial system, Arduino MEGA 2560, GSM Module 800A, Fire Sensor, DHT 11, MQ 5 Sensor, Interfacing

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80 Factors of Realism and Idealism in Indian Foreign Policy

Paper ID V7I3-1387 · Pages 400-405 · General Research

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Actors, Factors and Dynamics are the driving force of International Relations (IR). Ideologies often work as a beacon, shield or a guide for a nation while making of its foreign policy. Idealism and realism have been two most dominant ideologies of IR during 19th and 20th century. Both of them are continuously contesting to hegemonies each other since then. This research paper is an attempt to explain the continuity and explore the changes and examine the future implications of theory of idealism and realism on Indian foreign policy. The post independent Nehruvian Foreign Policy which was predominantly idealist with the pinch of realism in few instances like adopting mixed economic model and leadership of Non- Alignment Movement (NAM). The research work passes through Mrs. Indira Gandhi era, which was absolutely an era of realism in Indian foreign policy. Then Rajiv Gandhi government believed in a balance of both the ideas and maintained a status – quo. During 1990s despite of political turmoil foreign policy was guided with realism which opened Indian economy and doors of globalization. Economic considerations remained predominant factor to determine national interest. After 1998 the government under A. B. Vajpayee also followed realism as the guiding principal of foreign policy, which was continued by UPA government under Dr. Manmohan Singh till 2014. The change of regime in 2014 brought NDA government led by a strong and most popular leader Narendra Modi in power. He has made foreign policy and IR a vibrant policy area. Through his extensinve outreach to nations, leaders and people he left inedible footprints of realism in Indian foreign policy. This paper has looked into role of realism and idealism as a guiding principal in Indian foreign policy in its core (SAARC), periphery (Asia) and intruder (America, AU, EU, Latin America etc.) areas. It culminates with a possibility of extensive research in this area in future.

Keywords: Realism, Idealism, Indian Foreign Policy, post-independence, South Asia, China, US

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81 IoT based early flood detector and avoidance

Paper ID V7I3-1391 · Pages 406-409 · Electronic And Telecommunication Engineering

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Flooding may be a phenomenon which has attracted global attention as a results of its negative impact on the society. Developing nations like India are predicted to experience increased flood occurrences within the coming decade. The events of flooding are unlikely to vary , however, its impact on our society are often alright reduced. There are some places that are more susceptible to flooding than other places, the implementation of flood alert systems near any major water area or body of water provides critical information which will protect property and save lives.

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Keywords: Arduino, Android, BLYNK IOT, ESP8266 Wifi Module, Moisture Sensor, Ultrasonic Sensor

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82 Water desalination using P-N sandwiched nanofluidic membranes

Paper ID V7I3-1406 · Pages 410-412 · Nanofluidics

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In this paper, a novel P-N sandwiched nanofluidic membranes, with two reservoirs connected to the P-N sandwiched nanofluidic membranes is simulated for near 100% multi-ions desalination to result clean water at fast transport of ~ 1 km/hr velocity that keeps the clean water supply going in a city. The P-N sandwiched nanofluidic membrane is electrically driven by Pt electrodes to drive the water and multi-ions similar to reverse electrodialysis (RED) method.

Keywords: Nanofluidics, water desalination, nanopores, P-N nanofluidic membranes

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83 Temperature based fan speed controller

Paper ID V7I3-1382 · Pages 413-415 · Internet Of Things

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This project is a standalone automatic fan speed controller that controls the speed of an electric fan according to the temperature . It may also be used for monitoring changes in environment . The LM-35 Analog Temperature devices interfaced to analog pin of Arduino board, where it has built in ADC which convert these analog reading and displaying it on a LCD, which indicate the temperature of the device .This project is useful in process industries for maintenance and controlling of boilers temperature . This project is a self-contained automatic fan speed controller that regulates the speed of an electric fan to our specifications. This is closed due to the use of embedded technologies. The loop feedback control system is a highly effective and dependable system. A microcontroller (ATMega8 / 168 / 328) allows for dynamic and interactive control. Regulation is more rapid. The device is made possible by a liquid crystal display (LCD).pleasant to the consumer The fan and the temperature that was sensed

Keywords: Potholes, Accidents, Detect Potholes, Roads of Mumbai, Ultrasonic Sensor, GPS Module, Avoid Potholes.

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84 Website for online Stock Market Trading tips analysis

Paper ID V7I3-1393 · Pages 416-419 · Computer

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The website aims for analyzing the accuracy of tips given by the Financial Advisor to the Investors investing in the shares of the Stock Market. The stock market plays a crucial role in the financial aspects of the nation's growth, but Stock Market is highly Complex and risky. On every day's business, millions of traders invest in Stock Market. Most of these Investors either gain or lose money. With the ease of availability of top-notch gadgets, superior technology, and the high-speed internet, youngsters today are adapting the quick and efficient option of Stock Market Trading as an additional source of income.With this Online Trading Platform created by using the Agile Model of SDLC, this website provides tips to the new Investors to invest in the right shares based on the detailed analyzed tips given by the Financial Advisors.

Keywords: Stock Markets, Financial Advisors, Tips, Investors

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85 Tunnel Boring Machine Technology: A review

Paper ID V7I3-1396 · Pages 420-429 · Civil Engineering

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In this modern era of “Construction Technology", the industry is parting with old techniques, researching for better alternatives and opting the state-of-the-art techniques for better and satisfactory output. In this review study, the various tunnel construction techniques have been discussed with special attention to TBM (Tunnel Boring Machine) technology. The study highlights the importance and practicability of modern TBM in contrast with traditional methods of tunnel boring/ underground excavations. Timeline of the technological advancements in TBMs have been discussed in detail. The study describes different types of TBMs, components, applicability in different geological conditions. The study explores, the history of TBM, its various types, excavation tools, muck management, tunneling works like tunnel lining, tail-skin seal and grouting, surveying and guidance systems, comparison of tunnel boring machine and conventional excavation techniques, various risks it is exposed to during transport, assembly, erection, testing, boring of a tunnel and disassembly. Apart from this, various challenges involved while working with TBMs have also been discussed and suitable corrective measures have been suggested. It has been observed that if the geological conditions are not identified or if known to be poor, construction workers need to carefully consider whether to use the TBM method or follow a more traditional approach. An optimal scheme should be suggested after analyzing geological conditions, construction progress, economic benefits and environmental impact. However, a number of tunnel boring machines are available with very high advancing speed and do not have many limitations. TBM technology has revolutionized underground space creation under the cities and allows easy construction of

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metro systems, water and sewage systems, and underground cable networks while maintaining safe and sustainable built environment. However, as different types of TBM are available, their suitability for different soil conditions revolves around the correct choice of TBM and the level of experience of the operator.

Keywords: Underground structures, Tunnel, Tunnel Boring Machine, Risk Assessment of Projects, Hazards

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86 Design and Analysis of Tidal Compressed Air Electricity Generator

Paper ID V7I3-1397 · Pages 430-435 · Mechanical

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This project aims to extract as much energy as possible from ocean waves/ tides to shift the dependency of power generation from conventional sources. With the world now veering to electric vehicles, the electricity demand will increase rapidly. A Mechanical system is designed to utilize tidal or wave energy to compress air. The system includes a reciprocating compressor (piston contained in a chamber including an air intake port). This unit is connected to a storage tank with a non-return valve. The piston is driven by a lever arm which on the other end is attached to a movable power transfer shaft. A float is present on the lower end of the rod and is set in the ocean. As the float is displaced upwardly by waves, so are the rod and the lever arm compelling the piston at another end to compress air. The compressed air is stored at a high pressure in a storage tank. Multiple compressor units will aid in filling the tank faster and reducing the load on the compressor. The compressed air is then transferred from the storage tank to a turbine, where electricity is generated. The calculations are carried out for the complete setup while taking standard turbine data. The project mainly focuses on the design and analysis of Storage Tank (structural), buoy (structural and Hydrodynamic simulation) and motion study on the entire setup. The aim is to produce 3 MW power in one cycle (approx. 12 hours).

Keywords: Buoy, Design, Finite element analysis, Renewable energy, Storage Tank, Wave energy

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87 Quantum theories in science and technology

Paper ID V7I3-1399 · Pages 436-438 · Quantum Mechanics

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In this paper, we forth universal quantum theories in science and technology, relevant to mechanics and dynamical systems of multi-body grand canonical bodies. The quantum theories are generalizable to millions to billions of interactive bodies of different properties, interactions and science and technological applications from quantum computing, Q-LEDs, Q-heat transfer, Q-hydrodynamics, Q-EHMD, spintronics, Q-engineering and measurement with the theory laid here for quantum science and technology.

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Keywords: Quantum Mechanics, Quantum Dynamics, Quantum Theory, Applications, Technology

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88 Implementation of Sliding Window Protocol over lossy connections

Paper ID V7I3-1422 · Pages 439-440 · Computer Science

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– In the Lossy Networks, the loss of data packets is very prominent and concerns of worries for efficiency and sustainability of the system. However, by using Sliding Window Protocol both the sender and receiver keeps a window of acknowledgement. The sender keeps the knowledge about expected acknowledgement and receivers keeps the knowledge about receiving frames. Due to which, loss of transmission of data is minimal and efficiency of the system is improved.

Keywords: Lossy Networks, Data packets, Acknowledgements, Sliding Window Protocol

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89 Patient’s Health Checkup System based on IOT using Raspberry Pi.

Paper ID V7I3-1410 · Pages 441-443 · Electronic And Telecommunication Engineering

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Now-a-days, Health has become one of the global challenges for humanity. Due to covid-19 pandemic people are significantly more worried about their health as cases are rising rapidly. Hence it is crucial to monitor the physical health of the patient. Due to several problem timely patient’s health monitoring is very essential. This paper presents a design and implementation of patient’s health monitoring system which includes several sensors. The patient’s physique will be monitored constantly, and the doctor can know about the patient’s condition continuously in front of a computer screen or on smartphone. Whenever the condition of the patient goes abnormal Doctor can analyze the problem immediately which can help to save patient’s life. The main motive of this project is to update. the doctor about the patient’s health condition timely and if any abnormality occurs, the doctor can take the best step immediately.

Keywords: Internet of Things (IoT), Raspberry Pi, Temperature Sensor LM-35, Heartbeat and ECG sensor AD8232and pulse oximeter.

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90 Voltage based control of Induction Motor using Advanced Voice Recognition and Command System

Paper ID V7I3-1394 · Pages 444-446 · Electrical Engineering

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It is difficult to work in dangerous environment in numerous of the businesses. Human can survive as it were certain sum of temperature, weight etc. To work in environment over a run will cause risk to human life. Thus the framework is planned to diminish hazard of human life as well is more precise and computerized to alter itself to commanded parameters. The framework has highlight of voice command-based control of IM Drive for mechanical purposes through strategy of voltage variety. Moreover, it has essential highlights of drive assurance based on warm and over current security of drives. Gadget is having closed input circle framework based on tachometer speed sensor to alter speed precisely and keep up it indeed in the event that stack shifts. The voice acknowledgment gadget utilized is Alexa by Amazon and it communicates to custom planned drive control through wi-fi utilizing Hub MCU.

Keywords: 3 Phase Induction Motor, Voice Controlled Induction Motor, Voice Recognition Module, Microcontroller, Speed Control, AC Motor, Alexa Echo Device, Voice Reorganization and Command System, Variable Frequency and Variable Voltage Drive (VFD)

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91 Efficacy: Project-based blended learning in acquiring micro-teaching skills among B.Ed student-teachers

Paper ID V7I3-1390 · Pages 447-450 · Education

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The study enlightens the effectiveness of Project Based Blended Learning in Learning Micro teaching skills among the student-teachers of B.Ed level. Traditional methods challenged to enhance the teaching of Micro-teaching skills among the student-teachers. The researcher endeavoured to practice Project Based Blended Learning for enrich the knowledge and understanding the teaching of Micro-teaching skills. .Objectives of the study: 1.To find out the effectiveness of Project Based Blended Learning in acquiring Micro teaching skills..2.To find out the significant difference in achievement mean score between the pre test of control group and the post test of control group.3.To find out the significant difference in achievement mean score between the pre test of Experimental group and the post test of Experimental group. Methodology: Parallel group Experimental method was adopted in the study. Sample: Thirty Student-Teachers of B.Ed, Paramveer College of Education, Dharmapuri were selected as sample for the study. Thirty students-teachers were considered as Controlled group and another thirty were considered as Experimental group. Tool: Researcher's self-made achievement test was used as a tool for the study. Validity of the tool was established by the opinion of the juries. Reliability of the tool was established by the split-half method. Statistical technique:'t' test was used to analyse the study. Findings: Project Based Blended Learning is more effective than traditional methods in acquiring Micro teaching

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skills. .Educational implications: It can be implemented for preparing lesson plan and other teaching-learning activities.

Keywords: Project-Based Blended Learning, Micro-Teaching Skills, Traditional Methods

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92 PCB fault detection using Artificial Intelligence

Paper ID V7I3-1414 · Pages 451-452 · Artificial Intelligence And Machine Learning

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PCB (Printed circuit board) is that the fundamental carrier in electronic devices on which a number of small electronic components are placed. The performance of devices is affected largely by a fault in PCB. To overcome the inefficiency of manual detection, time, and cost, automated optical inspection (AOI) supported machine vision has been widely utilized in the industry. As PCB designs get more and more complicated, the tasks like detection and classification also get more harder than before. For the purpose of solving the above problems, we have proposed a PCB fault detection system using machine learning. The system will automatically detect the PCB with the help of computer vision and compare it with the working PCB image which will be already saved in the database. After comparison, the application will be able to tell whether PCB is working or faulty and likewise generate a report. It will also recommend a solution to faulty PCB.

Keywords: Printed Circuit Board, Machine Learning, Algorithm, Django Framework, Python, Computer Vision.

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93 Survey on lane detection techniques

Paper ID V7I3-1379 · Pages 453-456 · Computer Engineering

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Every year, a large number of persons are killed in highway departure crashes due by driver inattention. Because safety is the primary goal of these systems, lane detecting systems can help prevent accidents. Such systems are designed to detect lane markings and alert the driver if the vehicle is drifting out of its lane. Several lane identification systems have been proposed and effectively proven in recent years. The hybrid median filter was used in this study to provide a noble strategy for lane detecting. Lane detection is used in a variety of intelligent vehicle applications, including lane trip recognition and warning boards, intelligent journey control, and autonomous driving. The majority of previous research has ignored the use of image filtering algorithms.

Keywords: Lane Detection, Modified Hough Transformation, Edge Detection, Hybrid Median Filter (HMF)

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94 Automatic categorization of Journal Submission System: An approach based on Cosine Similarity

Paper ID V7I3-1380 · Pages 457-459 · Computer Science

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In this paper, we have designed the automatic categorization of electronic journal submission system. Hence, eliminating the manual identification/selection of category and subsequently uploading the paper under that category. The proposed system reads the content, process it, removes the stop words and compares the remaining words with already set aside words for categorization/classification. From the extensive experimentation, it was revealed that the proposed system is robust and eliminates the manual involvement of submission administrator.

Keywords: Categorization/Classification, Submission System, Stop Words, Administrator

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95 Smart Resource Alert

Paper ID V7I3-1420 · Pages 460-462 · Electronics

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As technology is becoming more advanced, the world is heading to a state of huge energy scarcity. The existing resources are depleting at an alarming rate and people are struggling to find alternative sources of energy.On the contrary, a lot of valuable energy is getting wasted too in the form of a fault or leakage, commonly seen at our households.We propose an approach to keep track of energy and water usage at our households and thus alerting the consumers in the form of an application. The energy sensor ACS712 and the flow sensor YFS201 are used to measure the amount of energy and water consumed. The signals are sent as interrupt to the microcontroller where calculations are processed. A Wi-Fi module ESP8266 is used to upload the data to the cloud which can then be accessed by the user in the form of an application which keeps track of the usage and notifies the consumer. Extra features like gas leak detection can also be included in the application.

Keywords: Technology, Energy sensor, Flow sensor, Microcontroller, Wi-Fi module, Application

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96 Design and development of embedded system using CAN Protocol

Paper ID V7I3-1425 · Pages 463-466 · Embedded System (Can Protocol)

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Automobiles have been an inextricable feature of daily life. The impacts that cars with improved safety systems require in order to compensate for deadly fiascos. Therefore, the present work cites a system based on the protocol Controller Area Network (CAN) which provides an effective and real-time information transfer solution between nodes, is used for preventing vehicle failures and assists drivers with information and message-based instructions. The proposed framework, which uses the CORTEX ARM LPC 1768 chip, specifies four key objectives related to automobile protection in this article. The proposed device uses the CAN protocol, which only requires two wires to communicate, rather than complex wiring.

Keywords: CAN (Controller Area Network), Embedded C, GSM (Global System for Mobile (communication)), Sensors.

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97 Alarm switch for security

Paper ID V7I3-1432 · Pages 467-470 · Electronics And Communication Engineering

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The design and implementation of a switch alarm for security used in this project to prevent the number of crimes from increasing every day are presented in this document. Something must be in place to keep us safe. We're all aware of the high-end security systems available on the market, but they're not for everybody. As a result, we hope to provide a solution by constructing a cost-effective electronic device capable of detecting intruder motion and activating the alarm. The main goal of this project is to incorporate a security framework that will provide users with increased privacy, protection, and peace of mind.

Keywords: Arduino UNO, PIR Sensor Module, GSM Module, Programming using C language

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98 Digital door lock system using OTP

Paper ID V7I3-1435 · Pages 471-473 · Electronics And Telecommunication

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Nowadays providing security to houses is necessary. securing houses became one of the concerning issues that facing many people. This paper aims to propose a security door lock system based on raspberry pi technology where cameras, keyboards are used to providing authorization and notification to the owner. In this system, the authorized person is the only one who will get permission to access the door. This system generates an OTP and sends it to the owner which can be shared by the owner to the unauthorized person by which he/she will get access. The proposed system can be extended to be used for different areas like banks, offices.

Keywords: Raspberry Pi, Home Automation, Door Lock

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99 Web development architectural design and its components

Paper ID V7I3-1436 · Pages 474-478 · Web Development

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Intergroup and terms of inter collaborations have arisen from the exponential development of e-commerce and production systems. Orthodox software products seem unable in able to keep pace only with the entropy development of the new ERP system platform. A web framework (WF) or web application framework (WAF) is an engineering platform that assists developers in the building of interactive services such as internet applications, browser plugins, and web APIs. Social networks are a mandatory document for developing and implementing internet software. Network architectures seek to minimize the downtime involved with traditional digital marketing practices. Many design patterns, for starters, offer repositories including memory management, encapsulation protocols, and security configuration, and they also encourage development time. While they are often used to create unique postings, there often are useful to web blogs.

Keywords: Web Application Framework, Web Framework, MVC Model, Web Architecture

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100 Remote Work Monitoring and Work Submission System

Paper ID V7I3-1443 · Pages 479-482 · Computer Science

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In this modern era of technology to enhance performance, many electronic organizations have started increasingly using electronic performance monitoring systems. Efficient surveillance is the use of real-time images of ongoing construction sites. This paper based on 'remote work monitoring and submission system'. In today's world monitoring and surveillance system plays a vital role to increase productivity and efficiency of employees; the main objective of the proposed system is to reduce the number of employees that required only for surveillance purpose, this will give the ability to monitor various work sites from one place using this system and also reduce the company's expenditure. The proposed system is made for employees of an electrical company, this system provides a platform to submit their work from the remote site to the server from which the supervisor of that particular organization can monitor actual work. This system is useful for collecting data from the owner of the company. By satisfaction of this gathered information/data owners can decide how much work and which type of work/jobs are requested in particular dates of the year, they can even make a good schedule by which they can use their manpower more effectively.

Keywords: Surveillance System, remote monitoring system, electro works.

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101 Cell Phone detector and its design

Paper ID V7I3-1446 · Pages 483-486 · Electronics And Communication

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The utilization of phones is broad on the planet. In spite of the fact that individuals should be connected to each other, there are times and areas where this is prohibited, either for security reasons or in light of the fact that it represents a wellbeing hazard. There is a squeezing need to confine cell phone use in explicit areas and at explicit occasions. Thus, the utilization of a brilliant cell indicator is guaranteed. Regardless of whether the telephone is in quiet mode, the circuit will identify approaching and active calls, SMS, and video transmission. At the point when the Bug detects a functioning phone's RF transmission signal, it sounds a blare cautioning and the LED squints. In The production of techniques to take out assessment place negligence in all instructive establishments is a significant field of study. At the point when a GSM recurrence signal is distinguished, the gadget would have the option to stick it, keeping the communicated signal from arriving at the client's cell

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phone.

Keywords: Mobile, Phone, Student, Intelligent Detector, Cheating

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102 Pivot influence: CEO change and their focal domain

Paper ID V7I3-1451 · Pages 487-493 · Business

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The paper assesses how a CEO change of a firm and his/her respective focal domain influences the intensity of the firm's pivot. During the research, we derive two hypotheses based on a pivot and the various associated parameters. The first hypothesis is that a CEO change in the firm will create higher intensity to pivot within the firm. The second being that a higher intensity to pivot will occur if the CEO of a firm is a domain outsider rather than a domain insider. Furthermore, in examining the United States (US) photovoltaic (PV) industry, we found that contrary to the first hypothesis, there is a lower intensity to pivot for a firm when a CEO change occurs. For the second hypothesis, if the CEO is categorized into a focal domain (domain insider and domain outsider), we find that a firm has higher intensity to pivot if the CEO is a domain outsider.

Keywords: Focal Domain, Pivot, Bussiness Fundamentals

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103 Employee attrition prediction

Paper ID V7I3-1431 · Pages 494-495 · Computer Science

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The success of major corporations/organizations depends on the employees working in it. These employees leave the jobs due to a variety of reasons ranging from personal problems, unsatisfactory working conditions to being fired for not meeting the requirements of the job. This leaving of employees is affecting the organizations in terms of cost as well as lost productivity. In this paper, we attempt to develop a system to predict employee attrition dependent on the data within the organization.

Keywords: Employee Attrition, Classification, Random Forest, Management

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104 Credit card fraud detection

Paper ID V7I3-1433 · Pages 496-500 · Machine Learning

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Credit card Fraud has emerged as a bigger problem with an increase in online transactions and e-commerce. A credit card fraud happens when a fraudster uses your credit card information to make unauthorized purchases in your name. Credit card companies need to address these fraudulent transactions so that customers are not charged for the goods they did not buy. In this paper, we aim to tackle such fraudulent transactions by identifying them using various machine learning algorithms like Logistic Regression, Random Forest and, eXtreme Gradient Boosting. The results of the algorithms are based on accuracy, precision, recall, and F1-score. The algorithms are compared, and the algorithm that has the greatest accuracy, precision, recall, and F1-score is considered as the best algorithm that is used to detect fraudulent transactions.

Keywords: Credit Card Transactions, Fraudster, SMOTE, Machine Learning

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105 Dual axis solar tracking system using Arduino UNO

Paper ID V7I3-1444 · Pages 501-503 · Renewable Energy Source

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Solar photovoltaic cells generates the energy by approximately following the intensity of light and using the light energy to create an electric current. There are many PV cells within solar panels and the current created by all of the cells together adds up to enough electricity. A dual axis solar energy system using “Arduino UNO” works as an automatic tracking system and controls the elevation and orientation angles of solar panels such that the panel always maintained perpendicular to sunlight. The measured variable of our automatic dual axis solar tracking system is low cost, reliable and efficient. As a result of experiment, by using monocrystalline solar panel and following the intensity of sunlight, the energy generated by dual axis solar tracking system increases consumption of energy up to 8%-25% more than fixed PV system.

Keywords: Photovoltaic Cells, Arduino UNO, Monocrystalline Solar Panel, PV System

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106 Human activity recognition system

Paper ID V7I3-1445 · Pages 504-507 · Computer Vision

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Understanding the activities of human from videos is demanding task in Computer Vision. Identifying the actions being accomplished by the human in the video sequence automatically and tagging their actions is the prime functionality of intelligent video systems. The goal of activity recognition is to identify the actions and objectives of one or more objects from a series of examination on the action of object and their environmental condition. The major applications of Human Activity Recognition vary from Content-based Video Analytics, Robotics, Human-Computer Interaction, Human fall detection, Ambient Intelligence, Visual Surveillance, Video Indexing etc. The Experimental Evaluation of various papers are observed efficiently with the various performance metrics like Precision, Recall, and Accuracy.

Keywords: Activity Recognition, Deep Learning, Training Dataset, ResNet, OpenCV.

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107 Post-operative rehabilitation of fracture of the distal end of the humerus: A case study

Paper ID V7I3-1450 · Pages 508-509 · Physiotherapy

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Intra-articular fractures of the distal humerus constitute 0.5%–7% of all fractures and 30% of elbow fractures. Over 25% of such fractures develop significant complications during treatment and a few of them may need further surgery. Intraarticular fractures of the distal humerus can be treated by open reduction and internal fixation (ORIF). Methodology: This case study was conducted on Mr. Rangaswamy during the first week of March 2021 at ESIC hospital. The patient was treated with gentle range of motion mobilization for elbow flexion, extension to the patient's pain tolerance level. He was also given wrist and hand ROM mobilization. Conclusion: During the 6 days of Physiotherapy sessions, we had with the patient, we both could see the improvement from day 1 until our last session together. He improved greatly during the course of treatment. The improvement came after joint mobilizations, functional exercises, and the patient's positive attitude, and the willingness to get back to normalcy.

Keywords: Intra-Articular Fracture, Open Reduction Internal Fixation, Mobilization, Case Report

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108 Prediction of plant leaf disease using image pre-processing and filter based optimal feature selection for KNN classifier

Paper ID V7I3-1452 · Pages 510-513 · Image Processing

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In plants, disease detection is a significant task related to the agricultural production of a country. The major economy of a country is linked with agricultural production which is very important for the development of a nation. Any kind of infection on the leaves of the plants leads to a loss in crop production and puts down the effort of farmers which in turn hits the economy and livelihood of the country. In this paper, we propose an image processing and filter-based feature selection method which distinguishes the disease of the plant leaf and classifies them using a KNN classifier. Using the feature selection process the unwanted redundancy and irrelevant data is filtered which helps the classifier to learn and classify the data more precisely.

Keywords: Lant Leaf, Disease, Image Processing, Machine Learning, Agriculture

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109 The effect of air pollution on APTI values of some plant species and their comparative study

Paper ID V7I3-1453 · Pages 514-518 · Chemistry

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Air pollution is one of the serious problems faced by people globally due to its transboundary dispersion of pollutants over the entire world. But, whatever mode, whether natural or artificial, is a major concern in to-days developing countries like India. The present research is aimed at assessing the air pollution tolerance index of plants at two different locations. The locations selected were Maheshwari Udayaan, Mumbai, India (located at the center of four signals routes (location 1), and Khalsa College garden, Mumbai, India (location 2). Plants available commonly in both locations were selected for the present research. Four physiological and biochemical parameters which are relative water content, leaf pH, Ascorbic acid, and total chlorophyll were used to compute the APTI. Plants' responses towards air pollution are assessed by the air pollution tolerance index (APTI) value. The plant species having higher APTI value can be given priority for plantation programs in urbanize and industrial areas; so as to reduce the effects of air pollution and to make the ambient atmosphere clean and healthy. The present study was conducted for evaluating the Air Pollution Tolerance Index (APTI) value of six plant species i.e., 1. Mangifera Indica 2.Polyathia longifolia 3. Ixora 4. Codiaeum variegatum 5.Canna Indica 6.Phyllanthus amarus.

Keywords: APTI, Ascorbic Acid, Chlorophyll, Relative Water Content, pH

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110 E-Commerce Website

Paper ID V7I3-1424 · Pages 519-525 · Computer Science

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Building a single page web application for ecommerce, to create a platform over online portals that facilitates online transactions of goods and services through transfer of information and trade over the Internet. In this project we are going to build a dynamic webpage which is different from the usual website, where in we are introducing to a website which dynamically loads the content and details of the products and services to the user in which he is interested in. Users will have a great experience while surfing on the web site because in a dynamic web page user need not load the entire page. Single page applications are fast and responsive because it does not load the entire page which significantly increases the website's speed and efficiency

Keywords: E-Commerce

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111 Cloud technologies in healthcare industry

Paper ID V7I3-1462 · Pages 526-529 · Information Technology

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The term "Cloud Computing" is a buzzword in the IT world and has been a major topic of conversation as of late and is emerging as one of the most important technologies of this decade. A distributed computing administration utilized by medical care suppliers for putting away, keeping up, and backing up close to home wellbeing data (PHI). Cloud services are capable of storing significantly more data than an on-site physical server, particularly when it involves the massive image files common in radiology departments. Also, medical care distributed storage costs are a small portion of these for on-location workers; in any case, the progress requires an undeniable worker virtualization execution. Numerous doctors and medical care associations are hesitant to utilize medical services cloud administrations because of a paranoid fear of enduring an information break infringing upon the protection Portability and Accountability Act (HIPAA). Because of the delicate idea of the data being put away and gotten too, numerous medical care associations are picking to keep away from public cloud benefits and carrying out an individual cloud administration in-house all things being equal.

Keywords: Cloud Services, Medical Care Suppliers, Cloud Computing, HIPAA, PHI

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112 HPLC method development and validation – A review

Paper ID V7I3-1429 · Pages 530-538 · Pharmaceutical Analysis And Medicinal Chemistry

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High-Performance liquid chromatography analytical tool used to qualitative and quantitative the drug product and drug stability, impurities. The separation is done by column, detection wavelength and other composition (organic & PH) for analysis of the drug. The analytical method development and validation play an important role in drug discovery and development. The validations are done by [Accuracy, Precision, Repeatability, Specific limit, etc.] the review articles are discussed by the High-Performance Liquid Chromatography Method Development and Validation of the drug.

Keywords: HPLC, Instrumentation, Method Development, Method validation

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113 Credit card fraud detection

Paper ID V7I3-1459 · Pages 539-540 · Information Technology

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In today's world, due to the rapid increase of technology many countries in the world encouraging cashless transactions. Credit cards are the easiest and fastest mode of payment both in offline as well as online transactions. So, credit cards are becoming a more popular mode of transaction in modern-day life. This also increases fraud cases in credit card transactions. Peoples and companies face a huge amount of loss of money due to these increasing cases of fraud transactions. This also affects the liability of the bank systems and service providers. This is why it becomes very important to detect fraud transactions and avoid financial loss. The good thing is fraud tends to occur in patterns so machine learning algorithms can help us to predict them. Our objective is to reduce the tedious work of the fraud detection process with the help of machine learning and data science.

Keywords: Credit Card, Fraud Detection, Machine Learning, Data Science

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114 MartShop – An E-Commerce Portal

Paper ID V7I3-1465 · Pages 541-544 · Computer Technology

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With the increasing popularity of ecommerce, it is very essential to involve every minuscule vendor who is innovating sundry products and selling them at a plausible price. The proposed system is implemented utilizing the latest technology flutter and with the firebase, which makes this system platform amicable and independent. The system is for all the minute vendors who are selling and earning through their hard work. Here utilizer has to register first without any registration fees and can integrate their store with rudimentary info needed for establishing the online store. After the successful registration the utilizer can upload a number of products with description and pricing additionally. Features like managing order history, contacting customers, sharing product images, sharing shop details, receiving payment, and updating shop details is given to vendors. For users features like view products, integrate products to wish list or cart, contact sellers directly, share products, and make payment is available. Utilizing the latest technology makes this shopping app more flexible and utilizer amicable. All these processes are done through data mining and using a data warehouse to collect multiple data for processing. Analysis of the data is done by K-Means algorithm and unsupervised ML.

Keywords: Laptop, Flutter, Firebase, Android Studio, data mining, data warehouse, data collection.

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115 Optimal Strong Password Authentication Protocols

Paper ID V7I3-1466 · Pages 545-547 · Networking

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The process or action of proving or showing something to be true, genuine, or valid is called authentication. The proper functioning of OSPA (Optimal Strong Password Authentication) has been explained that how it functions and how the OSPA can improve the authentication process for obtaining mutual communication between user and server and the secure transfer of data between them. Two major techniques can be used for the sa

Keywords: Cryptography, Authentication

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116 A study on Cloud Benchmarking

Paper ID V7I3-1467 · Pages 548-550 · Cloud Computing

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Sharing of files is a common functionality in cloud storage systems, which enable many users to concurrently use files in shared folders or workspaces. Current cloud storage systems, on the other hand, can deliver unexpected results to end users in the face of concurrency. Our research's aim is to identify the findings provided by existing cloud storage systems in concurrent environments and make these results publicly available, which could help both cloud storage end-users and service providers. Because of the large number of cloud computing providers and the various services each provides, cloud users need benchmark data that addresses the unique characteristics of the cloud computing world, such as dynamic scaling. Cloud Cmp, Cloud Stone, Hi Bench, YCSB, and Cloud Suite are five common tools that present workloads and/or methods for quantitatively comparing cloud computing offerings.

Keywords: Cloud computing, Benchmarking, Performance evaluation

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117 Hardware Implementation of Obstacle Detection for Autonomous Vehicle

Paper ID V7I3-1473 · Pages 551-554 · Robotics And Mechatronics

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this paper proposes a design variant of obstacle avoidance and voice control for the automobile’s car unit. The future advancement in this technology will help us in for the handicapped ones who cannot drive the vehicle on their own, transportation purposes, hazardous environment places where human interaction might be impossible and so on. Also, the use of sensors will provide greater safety from sudden hits. A Bluetooth module is used to create a communication link between the car and human voice commands via Android Application. The RF transmitter of the module can take human voice commands through the application which will then be converted into encoded digital data up to an adequate range of 100 meters from the robot. The receiver of the module decodes the input data before feeding it to the microcontroller to drive DC motors via motor driver L298D for necessary movements. An Arduino UNO which is the brain of our system is programmed to read voice commands and respond accordingly. Obstacle detection can be done by ultrasonic sensors interfaced with the Arduino UNO. Considering this feature, in the future it might prove a milestone in vehicle automation. Further the project can be developed using the Internet of Things, Artificial Intelligence technology where a user can control the car from any corner of the world.

Keywords: Obstacle detection, Voice command, Ultrasonic Sensors, Bluetooth module, Motor Driver, Infrared sensor, Arduino UNO

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118 Robot Automation Framework for Implementing and Developing the Requirements of Network Elements

Paper ID V7I3-1475 · Pages 555-558 · Telecommunications Management Network

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Telecommunication industry is growing exponentially with the network elements and its operation. As a result, managing network elements and its behaviors has become a challenging task and even time consuming. Integrating and verifying the network elements manually requires more time and human efforts to perform, therefore to increase the efficiency and decrease the efforts, time and errors, robot automation can be used. In this paper, the process, usage and importance of robot automation for network elements is explained. This keyword driven framework is highly extensible with reusable keywords, simple library packages are available in both python and java. In the output of the process, a detailed report and log files are generated in XML format for easy understanding and analysis. These features of robot framework help in getting quick and efficient result. The primary integration process is performed in the NetAct application that can be used for monitoring, analyzing and managing the network element operation and functionality verifications in all the phases. In this context, summary of robot automation framework utilization for integrating and verifying different types of network elements is discussed.

Keywords: Network elements, Integration, Robot automation framework, NetAct, Telecommunication management network

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119 Obstacle detection in automated driving using stereo vision images

Paper ID V7I3-1477 · Pages 559-562 · Computer Vision

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Automated driving systems guarantee a protected, agreeable and effective driving experience. The effectiveness and uses in the business of self-driving/driverless/automated/robotized vehicles will reduce human work. Quite possibly the main highlights for any keen ground vehicle depend on how it is reliable and feasible to get the data about the environment. This paper surveys the critical innovation of a self-driving vehicle. In this, there are four key advancements in self-driving vehicles, to be specific, path planning, environmental perception for vehicle control, are tended to and overviewed. By getting the environmental factors precisely and rapidly is perhaps the most fundamental and testing undertakings for the independent framework. Obstacle avoidance information is gotten from the highly resolute cameras and profoundly exact sensors. The most widely recognized detecting frameworks, for example, RADAR and LIDAR are utilized for insight on self-driving vehicles today give a full 360◦ view to the vehicle making it more educated about the environmental factors than a human driver. In this, a strategy to utilize two 360◦ cameras to see obstacles all around the self-sufficient vehicle. By utilizing vertical direction, instead of the horizontal direction and camera

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displacement. The Key thought for obstacle identification is to focus on the points in the 3D medium dependent on height, width, and slope comparative with neighboring points. The obstacle points that are mapped to the planes help in planning the motion of the vehicle. And also describes the robot operating system middleware and its importance.

Keywords: Obstacle Detection, Stereo Vision, Automated Driving, Sensors

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120 Green cloud computing

Paper ID V7I3-1449 · Pages 563-565 · Computer Science

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Cloud computing is emerging technology as a critical information communication technology to heavily impact our day-to-day life in the future. As computing becomes increasingly pervasive, the energy consumption attributable to computing is climbing that marked the foundation of Green Cloud Computing. Green Cloud Computing', the word green with cloud computing denotes that this is environment-friendly. The concept is to reduce energy consumption and reduce the waste disposed to the environment. To reduce energy consumption, cloud computing is exploring energy-efficient ways of working. A Green Cloud System responds to peak utilization periods and adjusts the availability of resources based on expanding or shrinking the cloud as needed.

Keywords: Green Cloud Computing, Security, Internet Data Center (IDC)

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121 College Enquiry Chat-Bot

Paper ID V7I3-1471 · Pages 566-568 · Artificial Intelligence

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In colleges the existing system it is difficult to get proper information to users due to lack of communication.In this pandemic we have using lots of technology for learning the system of colleges still have to improve our proposed system “College Enquiry chat-Bot” is an agent like a real person is talking with users nowadays many service websites using chatbots for solving queries of users. “College Enquiry Chatbot” is a web based application where students can ask questions through text or voice and agent replies from stored databases.The system is very easy to operate for students and also for college staff.

Keywords: Java, Spring boot, Chat-Bot , Angular, Rest-API, Dialog Flow

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122 Fin-Tech in India

Paper ID V7I3-1474 · Pages 569-572 · Technology

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Fintech is financial technology; FinTech is about the introduction of recent technologies into the application and financial services of digital technology from the financial sector. The research topics are studied theoretically. the data has collected by KPMG, PwS, SSRN and RBI. The paper provides the historic evolution of FinTech and size of Market and growth. additionally, the advantages and disadvantages of FinTech, FinTech hub, and FinTech regulation of India.

Keywords: Fintech, E-Commerce, Digital Finance, Financial Technology, Fintech Hub.

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123 Opinion Mining for restaurant reviews using Naive Bayes Algorithm

Paper ID V7I3-1464 · Pages 573-577 · Information Technology And Software Development.

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A wealth of unstructured opinion data exists online. Every day, millions of consumers add to this data when they share their opinion on a range of things, including feedback about their experiences with products and services. This feedback is volunteered, it contains the raw, unsolicited views and opinions about a brand, individual or event. Opinion Mining finds out the drivers behind the sentiment. By understanding what is driving the sentiment and how one is performing based on Net Sentiment, opinion data can be used to expose critical areas of strength and weakness. This data allows decision-makers in business, from customer experience and marketing to risk and compliance teams, to make the targeted, strategic overhauls needed to reinvigorate profitability or reclaim slipping market share. It is practically impossible to analyze all this reviews manually, so and automated aspect-based opinion mining approach is used. This paper focuses on aspect level, shows a comparative study amongst existing algorithm and proposes a new syntactic based approach which uses dictionary, aggregate score for opinion words. The dataset used was for restaurant reviews. The proposed method achieved a total accuracy of 87.06%.

Keywords: Sentiment Analysis, Prediction, Data Extraction, Data Pre-Processing, Opinion Mining, Parts of Speech

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124 Mobile cloud computing – Literature review

Paper ID V7I3-1269 · Pages 578-585 · Information Technology

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The high-speed development and renaissance in mobile devices have produced a fast-growing market. The

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remarkable progress made within the mobile applications allows the users to accomplish most of their tasks such as shopping, social networking, information gathering, and business through their mobile devices. However, there are some limitations in the mobile environment, which reduce the utmost benefits of using mobile devices. These devices are not as powerful as personal computers and lack high-level computational storage capabilities. Therefore, mobile cloud computing has been introduced as a possible enhancement for mobile services. Cloud computing is integrated into the mobile environment in order to beat the restrictions of mobile devices. In the paper, we describe the privacy and security issues faced by the Mobile Cloud Computing (MCC) technology. The issue faced in integrating green computing technology is discussed in this research paper.

Keywords: Framework, Features, Privacy, Security, Green Computing, Service, Future

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125 Palm detection and tracking project

Paper ID V7I3-1447 · Pages 586-588 · Computer Engineering

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Hand gesture recognition is a technology that is becoming increasingly relevant, given the recent growth and popularity of Virtual and Augmented Reality technologies. It is one key aspect of HCI, allowing for two-way interaction in virtual spaces. However, many instances of such interaction are currently limited to specialized uses or more expensive devices such as the Kinect and the Oculus Rift. In this paper, we explore the methods for hand gesture recognition using a more common device – the laptop web camera. Specifically, we explore and test methods of segmenting the hand. We will also cover one method for hand gesture recognition.

Keywords: Human-Computer Interaction (HCI), PTM, VGC

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126 Overview of fast dissolving tablets of Bisoprolol Fumarate and its patented products

Paper ID V7I3-1460 · Pages 589-596 · Pharmacy

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Recently, fast-dissolving drug delivery systems have started gaining popularity and acceptance as one such example with increased consumer choice, for the reason of rapid disintegration or dissolution, self-

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administration even without water or chewing. Various formulations were prepared by direct compression method using different concentrations of crospovidone (2-8%) and croscarmellose sodium (2-8%) as super disintegrants. Formulations were evaluated for precompression parameters and post compressional parameters like uniformity of weight, thickness, hardness, friability, drug content, wetting time, the water absorption ratio, in vitro disintegration time, and in vitro dissolution study. These kinds of dosage forms are also convenient for children, elderly patients with swallowing difficulties, and in the absence of potable liquids. Zydis products are packed in blister packs to protect the formulation from moisture in the environment. Nano-crystal technology avoids manufacturing processes such as granulation, blending, and tableting, which is more advantageous for highly potent and hazardous drugs. Flash Tab Technology involves the preparation of a rapidly disintegrating tablet, which consists of an active ingredient in the form of microcrystals. Oraquick utilizes taste-masking microspheres technology called a micro mask, which provides superior mouth feel, significant mechanical strength, and quick disintegration/dissolution of product. Flash Dose Technology consists of a self-binding shear form matrix termed as "floss". Shearform matrices are prepared by flash heat processing.

Keywords: Bisoprolol Fumarate, Fast Dissolving Tablet, Crospovidone, Croscarmellose Sodium

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127 Pothole and object detection with respect to the speed of a vehicle using sensors in Arduino UNO board

Paper ID V7I3-1470 · Pages 597-600 · Electronics And Communication Engineering

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Pothole detection is important while driving a car to reduce the number of accidents. This will also in turn prevent the vehicle from severe damage in terms of tire. In a densely populated country like India, it is also important to track whether any human being or any object is coming across a vehicle in high road and notifying its driver to reduce the speed and prevent road accidents. In order to detect the pothole and to track any human being or an object, the primary necessity is to have GPS for obtaining the location of the vehicle. This paper aims at proposing a pothole detection and object indicator system in a vehicle which will indicate the presence of potholes or any other object within a range of 20m.

Keywords: Potholes, Accidents, Ultrasonic sensors, Buzzer, GPS

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128 A critical analysis of wage inequalities in urban and rural sectors in India

Paper ID V7I3-1476 · Pages 601-608 · Social Cause

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we examine that there is an enormous gap among rural and urban areas regarding wage disparities in India. We study the time frame 1983-2005 utilizing family unit study information from progressive rounds of the National Sample Survey. We locate that this period has been described by a huge narrowing of the distinctions in schooling, occupation, dissemination, and wages between people in country India and their metropolitan partners. We locate that singular attributes don't seem to represent quite a bit of this union. Our outcomes recommend that approach mediations preferring country zones may have been key in initiating these time arrangement designs. The investigation likewise recommended a similarly a high gender wage gap in different classifications of exercises. It is astounding to locate that in India the compensation divergence exists essentially due to huge pay distinction inside the different classes of laborers. Further, the assessment of the wellsprings of pay contrast uncovers that gender wage gap is a part of the result of separation in compensation dispersion against women laborers. wage differentials are available among different gatherings and areas of the economy. The essential inspiration of this paper is to research the design of pay imbalance and work in India with the 60th cycle (2005-06) family unit review on business and joblessness directed by the National Sample Survey Office. The examination gauges completely various components of pay disparity as seen in the Indian work market by utilizing the Gini imbalance file. In breaking down the design of compensation imbalance it thinks about three significant areas, people in general, private formal and casual areas. Compensation disparity in the private conventional area is higher than the imbalance even in the casual area. Pay differentials in India are higher in rural areas when contrasted with metropolitan regions, and are higher among ladies than among men laborers.

Keywords: Wage inequalities, gender disparities, urban areas, rural areas.

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129 Alcohol sensing engine locking system

Paper ID V7I3-1480 · Pages 609-612 · Engineering

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Nowadays consuming alcohol and driving is the leading cause of many road accidents. The driving person is not in stable condition so the driving is also inconvenient for the other drivers and it is also question to damage of life of person, property and for others too. In this project, we are developing a system that will automatically lock the engine whenever it senses the person is drunk. The input for the system is in the form of a sensor i.e alcohol sensor which is attached to the controller. Our proposed system would be constantly monitoring the driver’s breath by placing it on the driver steering or somewhere the driver's breath can be constantly

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monitored by it. So if the driver is drunk and tried to drive, the system detects alcohol presence in his/her breath and locks the engine so that the vehicle fails to start. In another case, if the driver is not drunk while he starts the vehicle and the engine is started but he/she drinks while driving, the sensor still able to detect alcohol in his breath and stops the engine so that the car would not further accelerate and the driver can steer it to the roadside. In this project, we have used an Arduino microcontroller interfaced with an alcohol sensor and a dc motor to demonstrate the working of this project.

Keywords: Arduino UNO, Alcohol Sensor, Dc Motor, Automated Control System, Driver Monitoring System

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130 Design and Simulation of Circular Microstrip Patch Antenna Array (2×2) for S-Band Wireless Applications

Paper ID V7I3-1482 · Pages 613-615 · Telecommunication Engineering

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Latest trends and advancements in wireless communication require high-performance antenna designs with low profile characteristics like low cost, ease of fabrication/ handling/ maintenance, simple design, lightweight, etc. A microstrip patch antenna is best suitable for such applications due to its low-profile characteristics. A wireless local area network (WLAN) is a short-distance communication network mostly used for linking two or more wireless devices within a limited range. WLANs follow the IEEE802.11 standards which have listed the frequencies used in five different frequency bands i.e., 2.4 GHz, 3.6 GHz, 4.9 GHz, 5 GHz, and 5.9 GHz. This paper consists of the design and simulation of high gain antennas for 2.4GHz frequency band applications using High-Frequency Structure Simulator (HFSS) software.

Keywords: Wireless Local Area Network (WLAN), High-Frequency Structure Simulator (HFSS), S-11, VSWR, Gain, Directivity, S-Band

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131 Importance of Technology in Facility Management

Paper ID V7I3-1486 · Pages 616-627 · Technology

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Facility management (FM) is a profession that encompasses multiple disciplines to ensure functionality, comfort, safety and efficiency of the built environment by integrating people, place, process and technology. Today the FM Focus is on the trends of changing Business Strategy & Environment, emphasis on the frame work to create and adopt Business & support model to align to the current market trends in Corporate Real Estate, Facility management, Work Place solution, Communication, Environmental, Renewable, Sustainability, Health, Safety, Technology, Innovation, Global trends, Industry bench marking practices.

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Keywords: Facility Management, Technology, IoT, Robotics, Customer Experience. Future Trend, Business Continuity

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132 Footstep power generation

Paper ID V7I3-1495 · Pages 628-630 · Electronics Engineering

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The Invented device acts as a converting tool that generate electricity using pressure. This can be used for public locations like malls, shopping centers, railway stations, bus stations etc. Therefore, these devices can be installed publicly in situations where people are walking, and that they need to run or step on this device so as to pass or enter/exit their destination. This systems will then produce voltage about each and every move of the feet. For this reason piezoelectric sensor is often usually used to calculate power, stress and vibration via its transformation into electrical signals. This method provides voltmeter for measurement of performance, led lamps, mass measuring device and batteries for better demonstration of machine. If pressure is exerted on a piezoelectric sensor, it can transform the pressure into electrical energy. The current voltage within the motion is stored in batteries. The output power generated from its sensor is used to move the DC charges. Here we have used AT89S52 to show how much battery gets charged. Also, a Wifi-enabled IoT system determines how often voltage is generated from the source of the signal. Using the users\' IoT-based tracking, the data can be used to gain power that is intended.

Keywords: IoT, Power, Stress, Piezoelectric Sensor

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133 Autonomous object detection and following robot

Paper ID V7I3-1497 · Pages 631-634 · Robotics

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The surveillance due to jeopardy has been one of the important aspect in terms of security which is why there have been many solutions designed to encounter it. Surveillance solutions by military services are exquisiteand substantial. Battlefield awareness is one of the modern military technique which include various sensorsthat provide information in terms of pictures of the surroundings. There are many solutions which indicate the presence of enemy. So the technique of object detection in image processing is used in this project for the purpose of surveillance. The robot is made autonomous so that there would be no need of human intervention. The robot uses raspberry pi camera for image acquisition and raspberry pi board for image processing andlaser to shoot if the object is suspicious. Contrary to the traditional methods this autonomous robot hassignificantly showed a good accuracy in perception of surroundings, decision making and actuation.

Keywords: Surveillance, Image Processing, Raspberry Pi, Object Detection

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134 Hybrid automated lawnmower

Paper ID V7I3-1499 · Pages 635-636 · Electronics And Communication Engineering

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The project's goal is to build an automated hybrid lawn mower that runs on IoT and solar energy instead of fuel, which will help with energy-saving. The goal of this project is to build a hybrid automated lawnmower with a DC motor, rechargeable battery, solar panel, blade, and an IoT-based control system. The system has two modes: automatic and manual. The system is powered by a 12-volt battery. The solar lawn mower is controlled by a switch on the board that shuts the circuit and allows electricity to pass to the motor that drives the blade to move. During manual mode, we can operate the robot via a Bluetooth controller. For programming, the Arduino IDE software is utilized. Obstacles are detected using an ultrasonic sensor. Solar charging is used to recharge the battery.

Keywords: Solar, Grass Cutting Machine, Hybrid Power Supply, Remote Controlled, Temperature, and Humidity Sensor

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135 Training Effectiveness Program of different Companies

Paper ID V7I3-1500 · Pages 637-639 · Management

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The training program is conducted in every company irrespective of the type of business, it helps every employee to understand the company’s objectives, culture, expectations, and what role the employee has to play towards the company. The company provides On-Job training or Off-job training i.e some companies provide On-Job training in which they train their employees while allotting the task and train them simultaneously whereas some companies provide pre-training to the employees before assigning them the

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actual task. The training program towards employees has various advantages like it help them to understand the job role, improve performance, increase employees engagement, improves employees retention & growth, brush-up skills and so on. Training is important because it represents a good opportunity for employees to grow their knowledge base and improve their job skills to become more effective in the workplace. The research describes what are the different types of methods companies use to measure how effective the training program is and what percentage of response the company gets after the training program is conducted

Keywords: Training Program, Training Effectiveness Methods, On-Job Training, Off-Job Training, Feedback Form, Percentage of Response

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136 A Study on Development Operations for Continuous Integration using Jenkins

Paper ID V7I3-1510 · Pages 640-644 · Devops

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DevOps is a new way of thinking for software design that intends to break down the barriers between developers and operations team to provide quick delivery and immediate response to changing requirements throughout the software development Process. Each programmer or testing team will be allocated to different project, so it would be critical to test and build the modules to ensure they operate working efficiently and without flaws. One of the important techniques among software developers is Continuous Integration (CI), in which developers integrate their work into a baseline on a regular basis. Automating the process like build and testing is the important way to make Continuous Integration more powerful and quicker. This paper examines the challenges faced during traditional Integration and the advantages of CI using Jenkins.

Keywords: Continuous Integration (CI), DevOps, Jenkins, Software Development, Version Control System.

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137 Battery Operated Forklift

Paper ID V7I3-1513 · Pages 645-647 · Automobile

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Forklift is a machine that brought revolution in a mechanical industries and all heavy engineering companyuses it. Forklifts had changed the way loading and unloading of heavy weight cargo. Fork lift made it possiblefor a person to move thousands of kilograms of heavy load from one place to another without many efforts. To enhance the tech this prototype is constructed with remote technology, so that the person working on it can walk along with the forklift so that he can accurately place the container which, in end will increase the safety.

Keywords: Forklift, Battery Operated, Remote Controlled

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138 Cement Concrete Road Construction with Geogrid Material

Paper ID V7I3-1514 · Pages 648-652 · Civil Engineering

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In road construction the existing soil has many inherent flaws including various problems such as non-uniform consistency, unstable soil, moisture problems, tensile strength and loose soil.This study was considered with the use of geogrid to strengthen the rigid pavement .Weaker soils are generally clayey and expansive in natures which are having lesser strength characteristics. Technique of improving the soil with geogrid increase the stiffness and load carrying capacity of the soil through fractional interaction between the soil and geogrid material improving black cotton soil. The load coming on the road crust is transferred to the underlying soil. If the soil supporting the road crust is weaker, the crust thickness of road increases, which leads to the more cost of construction. To achieve the economy and for proper performance of road, it is necessary to improve the soil. Geogrid benefits include ease construction, increased life of the structure and reduce maintenance requirement and also reduce cost of construction, easy to repair or easy to installed.

Keywords: Inherent flaws, Non-uniform consistency, Tensile strength, Geogrid, Stiffness, Road crust.

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139 E-Pedagogy

Paper ID V7I3-1517 · Pages 653-656 · Computer Science Engineering

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E-pedagogy can generally be defined as 'learning design that integrates educational content, values and effectiveness of technology-supported teaching, learning and evaluation activities. According to UNESCO, one

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and a half billion students around the world have been participating in remote learning since March 2020 at the height of the COVID-19 pandemic. The increasing availability of online learning has gained its popularity among students. Because of this pandemic, everything has become online, it is difficult for teachers to have different software that performs various tasks such as marking attendance, scheduling meetings, sending notes, assignment and conducting examinations. With all the enhanced software, hardware, and mostly the Internet access, provides more options for online education which will become available. With all the student enrolments increasing in the universities faster than classrooms can be built, students becoming more proficient with technology, and students pursuing an education that meets their needs, the future of online education will continue to grow. Online education programs will become more widely accepted since they have become a more common practice. We therefore need a full all-in-one online education solution. This provides features such as the submission of online assignments, the scheduling of meetings, the maintenance and management of individual student marks, the attendance marking system and the conducting of exams on a single platform. In online education, applications that can include therapy sessions or arrange extra classes for students can also play an important role.

Keywords: Online Education, Technology, Classroom, Students and Teachers, Assignment Submission, Grading, Prediction, Counselling Sessions

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140 ClipIT app like Tik-Tok

Paper ID V7I3-1442 · Pages 657-658 · It

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Users are consuming content via their mobile devices while they're on the go, the shorter the content is, the better. Short video content is streamed to us in a range of formats on a variety of social platforms-15-second Instant videos on Instagram, 2 to 3-minute videos on Facebook and news feed videos on Google+. This application has been created for people who want a platform to express user's every mood

Keywords: Tik-Tok , Registration login, Instagram

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141 RPM Measurement using Image Processing

Paper ID V7I3-1485 · Pages 659-663 · Electronics Engineering

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Accurate and reliable measurement of rotational speed is desirable in a variety of industries. This paper presents a rotational speed measurement system based on a low-cost imaging device with a simple marker on

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the rotor. Sequential images are pre-processed through denoising, histogram equalization and circle Hough transform and then processed by similarity evaluation methods to obtain the similarity level of images. Finally, the rotational speed is obtained through Chirp-Z transform on the restructured signals. The measurement principle, structure design, and performance assessment of the proposed system are presented. The effects of different influence factors, including frame rate, marker shape and size, an algorithm for image similarity evaluation, illumination conditions, shooting angle, and photographic distance, on the performance of the measurement system are quantified and discussed through a series of experimental tests on a laboratory test rig. Experimental results suggest that the system is capable of providing constant rotational speed measurement with a maximum is 200 RPM.

Keywords: RPM, Image Processing, Chirp-Z Transform

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142 Solar Powered Floating Trash Collector with Water Purifier

Paper ID V7I3-1515 · Pages 664-669 · Electronics Engineering

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Water is essential for our life, and there is no life without water on earth. It is important to maintain its cleanliness as it is the basic need for all living organisms on Earth. Water gets polluted due to many reasons such as waste from industry, garbage waste, sewage waste etc. This makes water unfit for drinking and other human activities. All urban water bodies in India are enduring a direct result of contamination and this results in scarcity of clean water. We have to incorporate technology such that cleaning work is done efficiently and effectively. This project helps in reducing pollution of water bodies thereby serves as a helping hand in removing scarcity of clean water. The main aim of our project is to collect trashes from water bodies together with purification of water. The system is made as a floating apparatus, when powered, it starts to float through water body and collect trashes. Along with trash collection a considerable amount of water is purified using filters. To make the boat self-sustainable, two solar panel are used which would charge the battery. When the Micro-controller is powered, it will drive the DC motors; motor for conveyer belt mechanism and motor for purification. Ardupilot, an open-source unmanned vehicle Autopilot software suite is used for autonomous vehicle control. Finally, a Wi-Fi module is used for visualising the status of micro-controller working. Thus, by incorporating this technology water scarcity and water purification can be overcome.

Keywords: Trash Collector, Floating Mechanism, Purifier, Solar Energy, Remote Controlled.

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143 Virtual Reality for Online Classes

Paper ID V7I3-1518 · Pages 670-672 · Virtual Reality

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The COVID-19 pandemic has been unprecedented and challenging leading us to explore alternative thinking in every aspect of our daily life. One such area is the educational environment which is undergoing a transformation due to the need for remote contactless teaching. While existing web platforms like MOOCs and Youtube have been able to offer a one-way communication channel, video conferencing tools like GoogleMeet, Zoom has built upon it to provide a nominal degree of human interaction. This paper discusses our project which uses virtual reality technology to enhance this even further and further improve the online classroom experience.

Keywords: Virtual Reality, Online Classroom, Google Cardboard

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144 Revolution of technology in the new normal

Paper ID V7I3-1522 · Pages 673-679 · Information Technology

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Technology has become a part and parcel of life in the ‘new normal. Life in the ‘new normal’ is using technology for daily affairs. The COVID-19 pandemic spread expeditiously across the world leaving nothing but devastation along its way. Apart from causing medical complications and deaths, it has left the world in economic despondency. The pandemic compelled the people to put a stop to their daily schedules, hunker down in their homes, and limit all social contact to protect themselves and their loved ones. The ongoing crisis has thrown into sharp focus, the importance of digital connectivity in daily life. It has become crucial for schools, governments, corporates, as well as consumers to rely on digital channels for accessing education, goods, services, information, and entertainment. Apart from work, technology has ingrained itself in our personal lives. Socializing, streaming movies, listening to music, entertainment all lean on technology. We now happen to see more of our phone’s blue light than the sunlight! The technology generates solutions for everyday life and contributes to resolving the conundrums of the universe. Technology has an array of functions for the prosperity of society which includes bringing into light new knowledge, bettering education, and increasing the quality of life of all living beings. “The secret of change is to focus all of your energy, not on fighting the old, but on building the new” - Socrates This research paper covers the evolution of technology and its heightened importance in the ongoing and post-pandemic life of people in all sectors and fields.

Keywords: New Normal, COVID-19, Operations, Connectivity, Solutions, Pandemic

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145 Extricate the Indigent

Paper ID V7I3-1533 · Pages 680-682 · Electronics

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Many people are under the threat of domestic abuse, or health care emergencies. People are afraid to talk about this outside but at the time of suffering, they will only think to make someone help them from the pain. To avoid the helpless issues in life as no people should suffer from the unprotected or defenseless situation. The system can we setup in house wall or used as a wearable outdoor device, in case if a person is in risk they can provide triggering through the wireless switch and let the neighbors know the details of this specific house is in need for emergency help. The alarming setup can be linked within the range of 1km. The alarming can be stopped only by the secure RFID tag by the neighbor to make sure that help is assured.

Keywords: Home Security, Alarm System, Safety, Emergency Help, Alert

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146 Digital Supply Chain Network – Is it a pre-requisite for Joining the Global Supply Chain for Automotive Industry

Paper ID V7I3-1536 · Pages 683-685 · Operation Management

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Advancements in computing processing and memory are spurring enterprises to come up with innovative digital technologies and a capabilities-paving way for Industry 4.0, the fourth industrial revolution. The emergence of distributive technologies, cognitive computing and machine learning (artificial intelligence), and modern sensor networks is creating a foundation for business analytics and the communication between the physical and digital worlds. This has transformed the ancient linear supply chains into more intelligent, connected, customizable, scalable, and nimble digital supply chain networks. The management of the digital supply chain network now constitutes a collection of insights from connected assets, sensors, and distributed data to steer applicable advancements through digital and analytical solutions.

Keywords: Supply Chain, Network, Automotive, Manufacturing

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147 Management system to minimize loss of data and time wastage in library

Paper ID V7I3-1537 · Pages 686-690 · Computer Science Engineering

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Manually managing library operations wastes time and adds needless tension to the situation. In light of the above, the computerized framework for managing library activities allows the best possible use of available library manpower and resources for the benefit of users. The aim of this design is to provide solutions to the challenges that manual library systems face. The Library Management System and the Online Library System are also included in this comprehensive design. It's a website that makes it simple for students and staff to use the library while also automating library processes by keeping track of library resources and automatically allocating them.

Keywords: Libraries, human stress, backend, frontend, html, MySQL

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148 Morse code based Secured Authentication System using Eye Blink through Haar Cascade and Facial Landmark Algorithm

Paper ID V7I3-1538 · Pages 691-696 · Artificial Intelligence

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Personal Identification Numbers (PIN) are widely used for user authentication and safety for security reasons. Users must enter a physical PIN to use PIN-based password authentication, which can be susceptible to password cracking or hacking. This model includes a real-time application for gaze-based PIN input, eye recognition and tracking, and a smart camera for Morse code PIN identification. To overcome the existing limitation, we proposed a security system in two features, one is PIN authentication using eye blinks PIN entry with Morse code, and other one is provides a safer password entry alternative. Finding the eye blinks through the Morse code, in which numbers are represented in points and dashes, which will be used to make the password authentication and creating the PIN is referred to as eye blinks-based authentication. Enhancing the conventional PIN entry by adding eye-blink based PIN entry with Morse code to provide an additional level of security is the motivation behind this work.

Keywords: Artificial Intelligence, Authentication System, Eye Blink, Morse code, Personal Identification Numbers.

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149 Timely Detection of Fire and Animal Intrusion in Agricultural Land Using IoT and CNN

Paper ID V7I3-1539 · Pages 697-701 · Iot And Convolution Neural Network

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Agricultural fields near forest areas often become the centre of human-animal conflict. Due to increased deforestation and destruction of wild-life habitat, animals venture out of forest areas in search of food. Other major consequence of deforestation is forest fire and poaching. As solution to the issues specified, technology can help to detect and warn potential human-animal interference near forest areas. On detection of fire near the agricultural land, pump is turned on automatically to put off the fire. On detection of movement through IR sensor, camera is turned on to identify the animal or human intruder using YOLO (You Only Look Once) algorithm. If an animal is detected, animal specific sound repellent is played to drive the animal away. If any human with weapons is identified, then an alarm is raised to alert neighbours of possible poacher and intruder. The farmer is alerted by means of an alert message.

Keywords: Arduino, Flame sensor, Gas Sensor, IoT, IR sensor

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150 Automated framework for detection of Face mask and Social distancing

Paper ID V7I3-1540 · Pages 702-706 · Cnn And Iot

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COVID-19's global pandemic has had a massive effect on global health, impacting over 139 million people worldwide. Wearing face masks and keeping a 2-meter gap between each other will help to avoid the spread. We propose a computer vision-based pathogen for creating a protected environment that contributes to public safety that focuses on real-time automatic surveillance of people in public places in order to recognize face masks, healthy social distance, and normal body temperature. When any of the above conditions are breached, the device sends out an alert to the authorized person. As a result, the proposed method saves time and slows the spread of the corona virus, all of which are beneficial to society. It may be useful in the current case, where the lockout is being eased to allow people to be inspected in public areas, shopping malls and other locations.

Keywords: Covid-19, Deep Learning, Euclidean Distance, Haar Cascade, Public Safety

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Evaluate the effectiveness of video assisted teaching programme on knowledge and practice regarding breast feeding technique among primipara postnatal mother

Paper ID V7I3-1543 · Pages 707-710 · Nursing

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Breast feeding immediately after delivery encourages the “bonding” of the mother to her infant. Initiation of breastfeeding, it is the first contact and first breastfeed. Objectives- To assess the knowledge and practice of primipara postnatal mothers regarding breast feeding technique in terms of pre and post –test scores in experimental groups and control groups. To evaluate the effectiveness of the video assisted teaching programme by comparing pre –test and post test knowledge and practice scores. To assess the correlation between knowledge and practice. Methodology-.A quantitative approach and quasi-experimental research design (pre-test, post-test, control group) was used for the study. Sample size was 60 primi para postnatal mothers 30 in control group and 30 in experiment group and sampling technique used was non probability sampling (Purposive sampling) technique Independent variables video assisted teaching breast feeding technique. Self Structured Knowledge Questionnaire was prepared with 40 questions and observation checklist for practice Questionnaire was prepared with 30 questions to collect the data and data was analyzed by descriptive and inferential statistics. Results-In pre test experimental group 17(56.7%) , 13(43.3%) had average ,good knowledge and none of them having below average and very good knowledge . In post test experimental group 20(66.7%), 8(26.7%) and 2(6.7%) good , very good average knowledge and none of them having below average. In pre - test control group 19(63.3%), 11(36.7%) had average, good knowledge and none of them having below and very good knowledge. In post - test control group 15(50.0%), 15(50.0%) average, good knowledge and none of them having below average and very good knowledge In pretest experimental group 24 (80.0%), 6(20.0%) had adequate, inadequate practice. In pretest control group 17(56.7%), 13(43.3%) had inadequate moderate adequate practice regarding. In post -test experimental group 23 (76.7%),7(23.3%) had adequate moderate adequate practice and0(0%)had inadequate practice. In pretest control group 19(63.3%) 11(36.7%) had moderate inadequate practice and 0 (.0%) had adequate practice The comparing pre and post test knowledge and practice in experimental group was found in the pre test 20.27 ± 3.45 and post test 28.50 ± 3.79.the pre vs post paired t ‘test value 36.877.In control group on knowledge was found in the pre test 19.97± 3.01 and post test 0.767± 0.86 pre vs post paired t ‘test value 4.892. In experimental group on practice score of mothers was found in the pre test 14.60 ± 3.69 and post test 22.90 ± 3.60. the pre vs post paired t ‘ test value 28.027.In control group on practice score of mothers was found in the pre test 11.43±3.29 and post test 12,20±.49 .The pre vs post paired t ‘ test value 6.185.There was no correlation coefficients were not significant in pre-post knowledge and practice in experiment and control group.

Keywords: Effectiveness of Video Assisted Technique, Knowledge, Practice Regarding Breast Feeding Technique

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152 Blockchain based data privacy preservation for financial sector

Paper ID V7I3-1545 · Pages 711-714 · Software Engineering

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Whenever people want to store information over the internet in cloud storage, security is the primary thing that comes to mind. There are more chances that anyone will leak such data if we store a data as it is or transfer a data as it is over the internet.In request to decrease the demand of monetary item data update among multi organizations, oversee multi-dimensional and broadened monetary information encryption, improve the traceback capacity, we propose a blockchain-based financial area.

Keywords: Cloud storage ,Data Encryption, blockchain, monetary multidimensional

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153 Design of autonomous line follower robot with obstacle avoidance

Paper ID V7I3-1547 · Pages 715-720 · Robotics

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This paper shows the design and implementation of the Line Follower Robot and its ability to select the desired line among the black and white lines. This can be combined with different colors. Since each color has its own distinct property, the robot can therefore easily differentiate among different colors and possess the ability to detect the presence of an obstacle and choose the other path to find its target. It is programmed in such a way that instructions are given to the robot which senses a line and attempts to move towards the target. The robot can easily move along very congested curves as it continuously data from the sensors. This robot avoids collision and it can detect collision with an obstacle sensor and hence reaching the target. The proposed system can be implemented in any commercial, industrial, medical, and also in educational labs

Keywords: Arduino, IR Sensor, Ultrasonic Sensor, Motor

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154 The need for digital transformation in business

Paper ID V7I3-1511 · Pages 721-724 · Management

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There was a time in business, where business as usual was good enough. Now no more. Where we are going good enough is dead and dying. In a world where everything is connected, there is only one major space to innovate, which is the digital transformations inside the organization. The organizations which are not digitally transforming are getting out of business. The research paper aims to identify, describe the impact of digital transformation of business in India and describe the key drivers of strategic business management development in the light of the recent waves of digital transformation. This research paper presents an overview of the existing literature, which is there concerning digital transformation. The research results from professional associations as well as the existing body of the recognized publishers were considered for making

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the research. Furthermore, we have conducted expert interviews as well as the market data where it was available.

Keywords: Digital Transformation, Digital Transformation Framework, Innovation

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155 Communication using VLC

Paper ID V7I3-1528 · Pages 725-728 · Electronics And Communication Engineering

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Visible Light Communication technology is considered complimentary to Radio Frequency (RF) technology. The current Wi-Fi network uses Radio Frequency waves, but the usage of the available RF spectrum is limited. Therefore, a new technology, Li-Fi has come into the picture. Light Fidelity (Li-Fi) based Visible Light Communication system appears to have enhanced wireless capability to realize IoT, 5G Cellular Systems, and many more. Li-Fi is a recently developed technology.

Keywords: Light Fidelity or Li-Fi system, Arduino Uno, Light-emitting diodes (LEDs), VLC, Photodiode, ASCII

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156 Recent trends in microfluidics-based skin-on-a-chip models and applications

Paper ID V7I3-1455 · Pages 729-737 · Biomedical Engineering

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Skin in the human body plays a major role being a dermal barrier, maintains homeostasis, and is a vital route for the administration of cosmetics and pharmaceutical formulations. Currently, skin diseases are also posing a threat globally, being ranked fourth among non-fatal diseases. Preclinical studies of drugs and therapeutics are required to be performed at a faster rate and ensure that the results obtained are accurate. Using conventional methods of animal testing is leading to high failure rates and an expensive drug development process. To circumvent these limitations, miniaturized microfluidic devices are gaining immense popularity with respect to diagnostics, biomedical research, and drug testing. Skin-on-Chip is one of the micro-engineered biomimetic platforms that can be used as an alternative to animal testing in preclinical studies. This review gives a brief overview of the limitations in the conventional drug development process. It gives clear insights into the general designing of the skin-on-chip device and collates recent developments that skin-on-chip models are subjected to, with an overview of the side effects testing of sorafenib using the skin-on-chip model. Integration of microsensors is also summarized in this review. The use of iPSCs and Skin-on-Chip in a combination resulting in better in vitro skin models is also highlighted. Further, this review gives information about the utilizations of Skin-on-a-Chip models in diffusion studies, wound healing, and progress in precision medicine tailored to the

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person. Finally, the potential challenges that have to be overcome for its widespread utilization are elucidated.

Keywords: Animal Testing, Microfluidic Devices, Skin-on-Chip, Sorafenib, Microsensors, IPSC, Wound Healing, Precision Medicine

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157 Recent advancement in adipose stem cell-based bone tissue engineering

Paper ID V7I3-1456 · Pages 738-745 · Cell Therapy

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Adipose stem cells (ASCs), a variety of mesenchymal stem cells (MSCs) are an essential element within bone tissue engineering (BTE). ASCs offer several advantages in isolation, culturing, maintenance, differentiation, repair, etc. Because of all these advantages of ASCs along with high paracrine activity, lacking major histocompatibility complex class II expression autologous ASCs are attracted towards treatment for organs damaged due to disease or injury and also in regenerative medicine. Bone is a very compound tissue and it takes part in various processes which include endocrine functions, hematopoiesis, mineral homeostasis and storage, body movement. Bone tissue engineering approaches involve combining cells and engineering materials with signaling molecules which is crucial for effective bone repair. ASCs are a vital element in BTE. BTE requires 3 important elements: (1) osteoprogenitor cells, (2) bioactive factors, (3) scaffold. In this review, we will be focusing on the recent discoveries which have employed the use of scaffolds, ASCs, bioactive factors in BTE. This review first outlined the advantages of ADCs in terms of isolation, culture, differentiation, etc. The different Growth factors involved in osteogenesis, which are the key segments in BTE. The available and recent innovations in the biological, mechanical, and structural necessities in the design of a profitable scaffold and their effects, which is succeeded by a summary of regular materials intended for scaffold fabrication were then briefed.

Keywords: Adipose Stem Cells, Cell Therapy, Bone Tissue Engineering, Growth Factors, Scaffolds

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158 Microporous Modified Atmosphere Packaging of food stuffs

Paper ID V7I3-1496 · Pages 746-750 · Food Packaging

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MAP is broadly used globally to withhold the quality and to prolong the shelf-life of vegetables and fruits. It also helps in lowering processing cost and adaptable air permeability. By the progress and growing demand of fresh foods industry, the partial porousness of film in MAP can’t encounter the fresh-keeping desires of foods, specially vegetables and fruits. Microporous film can adaptably regulate the gas absorptivity in line with metabolic physiological characteristics of foods stuffs, which has slowly become a prominent fresh-keeping technology in the field of food industry. Various methods used to prepare microporous films. This paper is especially targeting the applying of environmentally friendly degradable film materials in fruits and vegetables

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preservation. Investigation has revealed that the bio-degradable material can upsurge the fresh-keeping outcome of microporous modified atmosphere packaging. Broad range of application of microporous modified atmosphere packaging is used in various foodstuff packages. Current and future trends of microporous MAP are briefly discussed.

Keywords: Microporous Map, Shelf-Life, Packaging, and Biodegradable

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159 Artificial Intelligence in weed control and management

Paper ID V7I3-1503 · Pages 751-754 · Agriculture

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Weed control and management play a vital role in the economic system. As the presence of weeds along with the crops have the power to decrease the yield, hamper the harvest and also lessen the quality of the crop which could lead to increment in the production cost and also decrease the market value of the crop in case weeds are not controlled. Weeds also hinder with the application of pesticides and interfere with irrigation. Automation in weed control is an emerging technology. Sturdy weed management technology will control the weeds despite the variables in the field. This paper mainly focuses on the mechanisms of weed control and management and their future scope.

Keywords: Weed Plants, Crops, Weed Control Technology, Weed Control, and Management

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160 COVID Detection using X-ray

Paper ID V7I3-1532 · Pages 755-756 · Computer Science Engineering

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As we know about the Covid-19 virus that has shaken everyone around the globe. People get affected to this deadly virus physically & mentally and due to bad medical facilities in some countries it has become difficult to handle this large crowd of patients rushing to the hospitals. COVID-19 tests kits were hard to come by, there are simply not enough of them and they cannot be manufactured fast enough, which is causing panic. When there's panic, there are nefarious people looking to take advantage of others, namely by selling fake COVID-19 test kits after finding victims on social media platforms and chat applications. Since COVID-19 attacks the epithelial cells that line our respiratory tract, we can use X-rays images to analyse the health of a patient's lungs. And given that nearly all hospitals have X-ray imaging machines, it could be possible to use X-rays to test for COVID-19 without the dedicated test kits. This project uses TensorFlow and Keras and deep learning using CNN algorithm to train the model.

Keywords: Covid-19, TensorFlow, Keras, Deep Learning, CNN

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161 Women discrimination in Vijay Tendulkar’s plays

Paper ID V7I3-1550 · Pages 757-759 · English

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Vijay Tendulkar is one of India’s most influential playwrights. He is the most prolific and controversial dramatist among the Post-Independence Indian play writer. Vijay Tendulkar is one of the significant dramatists of the Indian English genre. He is realistic in showing the problems of the common man, the conflict between human relationships,s, and discrimination against women in the patriarchal society. Vijay Tendulkar (1928-2008) is a leading contemporary Indian playwright who writes in Marathi about emerging issues in globalization. His prolific writing over a period of five decades includes thirty full-length plays, twenty-three one-act plays, eleven children’s dramas, four collections of short stories, two novels, and five volumes of literary essays and social criticism. His female characters are mainly from lower and middle-class families such as housewives, teachers, mistresses, daughters, slaves, and servants. The issues of gender discrimination, greed for money, sexual norms, violence, man-woman relationship, social issues, power, and morality have been featured prominently in his plays. He deals with all the problems and conspiracies, of contemporary society. The conspiracies are discussed in this paper under the heading – Woman Discrimination

Keywords: Women Discrimination, Gender Inequality, Violence

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162 Modal analysis of jute reinforced structures

Paper ID V7I3-1552 · Pages 760-764 · Mechanical

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Recently the use of natural fibers as reinforcement has increased in many polymers showing in industrial applications and research work. As per today's environmental scenario, natural fibers are playing an important role due to their biodegradability, high strength, low cost, and corrosion resistance as compared with conventional materials. In this paper, the study is carried out on jute fibers as the best natural fiber. Due to jute fibers having superior properties jute has gained interest in composites. Jute fibers are better compared with synthetic fibers like glass, Kevlar, etc. which are made manually. This article presents the modal analysis of jute reinforced composite with resin as a matrix material.

Keywords: Natural Fibres, Reinforcement, Epoxy Resin, Composite

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163 A review on SARS-COVID-2 (Coronavirus-2019) virology, diagnosis, treatments, and control measures

Paper ID V7I3-1553 · Pages 765-772 · Virology

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In late December 2019, Chinese health authorities reported an outbreak of pneumonia of unknown origin in Wuhan, Hubei Province. Wuhan This coronavirus was provisionally named 2019-nCoV, now SARS-COVID-2 according to the Coronavirus Study Group of the International Committee on Taxonomy of Viruses. SARS-COVID-2 belongs to the Coronaviridae family, Betacoronavirus genus, subgenus Sarbecovirus. Since its discovery, the virus has spread globally, causing thousands of deaths and having an enormous impact on our health systems and economies. In this review, we summarize the current knowledge about the epidemiology, phylogenesis, homology modeling, and diagnostics of SARS-COVID-2.

Keywords: Middle East Respiratory Syndrome (MERS),Severe Acute Respiratory Syndrome (SARS), receptor binding domain[RBD], SARS-COVID-2, Ribavirin, Niclosamide, Netikriya –VataNeti, Jalaneti, nucleocapsid

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164 Solar fan with BLDC Motor

Paper ID V7I3-1554 · Pages 773-791 · Engineering

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Lately, there is a need to come up with the latest and most efficient designs for any electrical appliance. The following is a design of a brushless DC fan running based on solar power, which is expected to run using a small 12 V battery and solar pv panel. A brushless DC motor (BLDC) is a synchronous motor powered by electrical communication system than mechanical commutator and brushes. This fan is implemented via Arduino UNO that generates the pulses and has an in-built analog comparator. The BLDC motor is enabled with a hall effect sensor that senses the pulses of the inverter and controls the fan. This assembly provides an alternative to conventional fan models with minimal energy use. .

Keywords: BLDC motor, Solar energy, Arduino UNO, Hall effect

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165 The importance of information in Supply Chain Management

Paper ID V7I3-1555 · Pages 792-796 · Management

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There is a lot of change that is happening in business and that change is reflected even in the supply chain. Business, as usual, is dead and dying, similarly in supply chains, if the business is not digitally transformed, it becomes very difficult for the business to survive in the next era. With proper digitization and digital transformations in the supply chain, you get the better of the supply chain flexibility. This supply chain flexibility is the key for the success of most of the business. Supply chain flexibility is perceived as an upper hand in the present business, and supply chain information system is a basic instrument to encourage flexibility. The greater part of this research looks into the importance of information in the supply chain flexibility, supply chain information system, and supply chain management.

Keywords: Information, Information Systems. Supply Chain Information System, Supply Chain Management

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166 Tesla Coil – The Wireless Power Transmission Device

Paper ID V7I3-1558 · Pages 797-801 · Computer Science

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Electrical power is significant to trendy systems. From the littlest of sensors and bionic implants to satellites, remote controlled airplanes/cars/robots and oil platforms, it's necessary to be able to deliver power by means that apart from wires or transmission lines. the employment of wireless power transmission, on a scale larger than employed by magnetic induction devices, would yield systems to work remotely while not the requirement for comparatively massive energy storage devices or routine maintenance. it'll even be used in cases wherever across wires is inconvenient, unsafe or not possible like in wet environments, rotating or moving joints in addition as powering remote telecom equipment. This paper explores this wireless power transmission schemes and their practicableness. It additionally delves into theory, style and construction of a way to transmit power through house. to the present finish, the solid-state transformer configuration is employed because the basis to get high voltage, high frequency electric power.

Keywords: Tesla Coil, Magnetic Induction Device, High Voltage, Tesla Nikola, Conductor, Capacitor

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167 Sign Language to Text and Speech Conversion

Paper ID V7I3-1560 · Pages 802-805 · Computer Science

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Sign language is one of the oldest and most natural forms of language for communication. Since most people do not know sign language and interpreters are very difficult to come by, we have come up with a real-time method using Convolution Neural Network(CNN) for fingerspelling based American sign language(ASL). In our method, the hand is first passed through a filter and after the filter has applied the hand is passed through a classifier that predicts the class of the hand gestures.

Keywords: CNN, ASL

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168 Earthquake Prediction using Machine Learning

Paper ID V7I3-1563 · Pages 806-808 · Computers

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Earthquake forecasting is one of the most significant issues in Earth science because of its devastating consequences. Current earthquake forecasting scientific studies focus on three key points: when the disaster will occur, where it will occur and how big it will be. Scientists can predict where an earthquake will occur but it has been a major challenge to predict when it will occur and how powerful it will be. When the earthquake happens, we must fix this project. Specifically, you predict the time left before laboratory earthquakes occur from real-time seismic data that will have the potential to improve earthquake hazard assessments that could save lives and billions of dollars in infrastructure.

Keywords: Ad boost classifier (Random Forest Classifier and Decision Tree Classifier), XG Boost, Machine Learning, Earthquake Dataset

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169 Online Grocery Web Application for Creating and Managing Grocery List

Paper ID V7I3-1565 · Pages 809-811 · Computer Engineering

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Online looking has been called a speedily growing business, and though on-line grocery looking has not followed these same growth patterns within the past, it's currently being recognized for its potential. As such, the main target of previous on-line looking analysis has rarely encompassed this specific retail market, with the present studies focusing primarily on consumers' motivations and attitudes, instead of however customers really buy groceries on-line. Therefore, this thesis has the target of uncovering a number of the small print of shopper higher cognitive process processes for this specific on-line retail market, details which may facilitate more each tutorial analysis and social control information.

Keywords: Design, Types of Users, Use Case for Online Grocery, Pros, Cons.

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170 Color Theory and Psychology

Paper ID V7I3-1569 · Pages 812-817 · Interior Design

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Color psychology occupies a pivotal position in the art of design. Summarize previous research results and ideas of color, do exploratory research from the color of mental physical, physiological mechanism and color psychology color psychology and its application in the design of the three-part art, we want to increase the clarity of color theory, science and practicality, the color theory in the practice of the art of design in more scientific applications contribute.

Keywords: Interior Design, Colors, Color Theory, Color Psychology

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171 Sequences of Gaussian Diophantine 3-Tuples

Paper ID V7I3-1502 · Pages 818-822 · Number Theory

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This paper deals with the study of constructing sequences of diophantine triples through Gaussian integers such that the product of any two elements of the set added by a non-zero integer or a polynomial with integer coefficients or Gaussian integer is a perfect square.

Keywords: Diophantine 3-tuple, Gaussian 3-tuple

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172 Research on Functional Test Automation Tools for API, Web and Mobile application

Paper ID V7I3-1507 · Pages 823-826 · Software Testing

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Industry 4.0 is reshaping every aspect of production. This modern industry necessitates a faster-than-ever evolution of all aspects of the networks. In this case, validation and verification occur as critical phases in the life cycle of software projects. A software failure could have devastating effects, so it is critical that all applications function correctly in development. Without automation, testing cannot be effective in today's world. We need automation to minimize repetitive work and to ensure that the time from development to production is shortened while maintaining high quality. As a result, automated testing is critical in the software testing phase. This study aims at exploring and comparison of few popular tools in the realm of Web UI automation, API automation, mobile app test automation.

Keywords: QTP- Quick Test Professional , UI- User Interface, CI- Continuous Integration, CD- Continuous Deployment

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173 A study of computing paradigms: Cloud, Edge, Multi-Access Edge Computing

Paper ID V7I3-1544 · Pages 827-830 · Cloud Computing

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Internet of Things, Edge computing, Cloud computing, and Multi-edge computing are booming in the education and business. MEC, or mobile edge computing, is a critical technology that can maximize mobile resources by hosting compute-intensive applications, processing massive data before transferring it to the cloud, and providing user with cloud computing capabilities. A straightforward and concise overview of these computing paradigms and their relationships and each paradigm like cloud computing evolution from edge computing is addressed with its key points and relationships. This survey provides a holistic description of MEC technology and its possible applications along with different computing paradigms.

Keywords: Distributed Computing, Cloud Computing, Edge Computing, Mobile Edge Computing

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174 Interaction of Law and Gender in India: A jurisprudential analysis from Feminist Perspective

Paper ID V7I3-1574 · Pages 831-836 · Law And Society

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Feminists' efforts in the last decade have led to the passing of much legislation including the laws on: abortion, rape, maternity benefits, equal remuneration, sexual harassment, domestic violence. In context of India, laws prohibiting sati, child marriage, dowry, right to property and other have been passed. Despite these legislations, socio-economic status of women has shown little improvement resulting from a gap between women's formal legal rights and their continuing substantive inequality. The assumption working here is that either law is an instrument of change or that of oppression

Keywords: Law, Gender, Woman, Feminism, Criminal Law

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175 IoT based remote railway signaling system

Paper ID V7I3-1577 · Pages 837-840 · Electronics Engineering

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Cancellation and delay of trains is a very common problem that the Railways faces during heavy fog in winters especially in Northern Regions of India. One of the key reasons for the delay is the inability of the engine drivers to see the light signals from a faraway distance. The solution aims to provide a feasible way to overcome this problem by implementing an IoT based remote railway signaling system which is highly reliable, cost efficient, scalable, and robust for practical Indian conditions. The system is divided into three phases. In the first phase, wireless transmitters (NRF modules) are installed in the signal posts along with corresponding receivers in the train engines. Therefore when the signal turns red or green, the wireless transmitter will send the signal to the train on that track approaching towards the signal. The train will receive the signal and a red or green bulb will be switched on in the engine control dashboard inside the driver's cabin itself. The driver will thus know that the status of the signal ahead without depending on the visibility of distant light signals. The second phase couples the signal posts with a GPRS module (SIM900A) to provide internet connectivity and a connection to the AWS cloud through an IoT technology stack. This will allow Railways to set up centralized control rooms and control the signals in real time remotely. The third phase is a proposal to increase the efficiency of the system by connecting multiple signal posts to one GPRS gateway module through an ad-hoc network through LoRa technology. This phase is just a proposal for future work. The system aims to be designed to suit Indian conditions. Hence it has been made cost efficient by using only minimal components while being easy to use and scalable so that it can be implemented on a national level.

Keywords: IoT, Railway Signalling System

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176 Human Following Robot

Paper ID V7I3-1579 · Pages 841-844 · Electronics And Communication

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In Robotic industry has evolved so much and has been a revolutionary in helping human being to complete certain task. Without the help of industrial robotics to produce car, cell phone or a computer, productions will suffer as time is a very important factor for businesses. Researchers around the world understand this, and there is already an artificial intelligent robot being produced. Each year, there will be new findings to create a robot that may one day behave similarly like a human being. However, this project deals with only a human following robot which makes use of a metal and an RFID to distinguish the owner of the robot and follow the person. In an environment such as hospitals, schools, and shopping malls. Having a robot assistant surely seems like a dream for most of us. A robot that can help us carry items, accompany us at shopping malls, or during a jogging session at the park. A robot that can help nurses at hospital or bringing the medical supplies during war to injured soldiers. There are so many advantages of having such robot, that in the future, it will most likely be the trends. There are a lot of research surrounding this topic. Person detection and tracking using diverse image features and classifications method. Most of this research use a fixed camera, because when using a moving camera, there is a problem with background/foreground separation. Metal detectors and RFID tags are commonly used for person detection and tracking for this type of robots. The RFID tag is used to tag the owner of the robot and follow the person without getting mislead by any other person. The human following robot can be provided with sensors like Ultra sonic and IR sensor for obstacle detection. It can be connected through RFID to receive the commands.

Keywords: Arduino, Human Following Robot, RFID, Robot, Ultrasonic sensor

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177 Frequency controlled variable speed drive for Single Phase Induction Motor

Paper ID V7I3-1585 · Pages 845-850 · Electricity Engineering

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Induction motors with a single phase are commonly utilised in household goods and industrial control. Controlling the speed of these motors allows for multispeed and multifunctional operation. The variable speed drive of an induction motor utilising the frequency control approach is the subject of this research article. It is to build a solid-state control system that is both dependable and cost-effective for usage with fractional horse power motors. The proposed variable speed drive contains a power conversion section (AC to DC and DC to AC), which employs an IRF 840 N-channel MOSFET as the switching element. To give alternating current to the motor, four IRF 840 MOSFETS are employed as H-bridge inverters. In this drive, C124 transistors and MJE 13002 transistors are used as driver circuits to drive the H-bridge inverter. In this drive, there is two power supply. The frequency control circuit and driving circuit both need a 12 V power supply. For the H-bridge inverter, a 300 V power source is employed. The frequency is controlled by a pulse width modulation SG3525A IC in this drive.

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For altering the speed of an induction motor, the designed variable drive circuit has a frequency range of 16 Hz to 56 Hz at a constant voltage. The driving schemes of single-phase induction motors are discussed in this research study, as well as the principle actions of components utilized in variable speed drives, as well as the design calculations needed to build this drive, are supplied. Furthermore, the experimental testing of this drive when running a single-phase induction motor with a fractional horsepower is presented.

Keywords: Driver Circuit, Frequency Control Circuit, Induction Motors, Switching Element, Variable Speed Drive

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178 Wireless health monitoring and hospital accessing system

Paper ID V7I3-1564 · Pages 851-854 · Electronics And Communication

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The COVID-19 epidemiological situation and death counts are breaking daily records. New cases are reporting everywhere and hence a situation of examining health of an affected emerges. But most of the people (especially elders) are afraid of being affected if they are approaching a health centre (or hospitals) and so back up with the decision. In addition to this, those who are suffering with severe respiratory issues are to be monitored continuously. In this project, a prototype of wireless health monitoring system capable of sending information related to the health status of the patient is developed. The project can be divided into two stages of data acquisition & processing, and Communication stages. Data acquisition & processing stage consists of sensors and microcontroller. Sensors monitor temperature, BP, SPO2 etc of the patient. The output of sensors are converted to digital form and processed by the microcontroller. The details are viewed by the patient on the display and at the same time by the software user who is linked with the microcontroller WiFi. Critical value of the measured data can be set. When they exceeds threshold, it will alert the whole system. Once abnormalities are detected, the system transmits the information to the hospital database.

Keywords: Covid -19, Spo2, Wi-Fi, Health Monitoring System

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179 Contagion buster contact tracing with app Integration

Paper ID V7I3-1582 · Pages 855-860 · Electronics And Telecommunication Engineering

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Some of the recent developments in data science for worldwide disease control have involved research of large-

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scale feasibility and usefulness of digital contact tracing, user location tracking, and proximity detection on users' mobile devices or wearables. A centralized solution relying on collecting and storing user traces and location information on a central server can provide more accurate and timely actions than a decentralized solution in combating viral outbreaks, such as COVID-19. However, centralized solutions are more prone to privacy breaches and privacy attacks by malevolent third parties than decentralized solutions, storing the information in a distributed manner among wireless networks. Thus, it is of timely relevance to identify and summarize the existing privacy-preserving solutions, focusing on decentralized methods, and analyzing them in the context of mobile device-based localization and tracking, contact tracing, and proximity detection. Wearables and other mobile Internet of Things devices are of particular interest in our study, as not only privacy, but also energy-efficiency, targets are becoming more and more critical to the end-users. This paper provides a comprehensive survey of user location-tracking, proximity-detection, and digital contact-tracing solutions in the literature from the past two decades, analyses their advantages and drawbacks concerning centralized and decentralized solutions, and presents the authors' thoughts on future research directions in this timely research field.

Keywords: Covid-19, Android application, QR code, QR based tracking, Bluetooth interface, RF circuit, PHP interface, Wireless communication.

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180 Client management and client interaction model for law office

Paper ID V7I3-1562 · Pages 861-863 · Law

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Customer Relationship Management (CRM) is one of the most potent business strategies to emerge in recent years. Its allure is rooted in common sense which dictates that the more an organization knows about its customers and the closer the relationships it can forge with them, the better it can serve their needs and the more it can sell

Keywords: Client Management

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181 Stream indicator for 10th pass

Paper ID V7I3-1587 · Pages 864-866 · Student

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This project is taken by looking forward to the current scenario of the world. In this project we gave a brief about what is career guidance and why it is important to make a career plan. As we are going through a tough situation, we thought that this topic will be useful for the students who will be giving their boards this year. In this situation guidance plays an important role to curve one's career. As it is an online platform it will be

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feasible for everyone to reach it easily. Stream guidance and student is an extremely broad and a comprehensive concept, in order to implement this task effectively there are number of factors that need to be taken under consideration. The guidance regarding one's career and the counselling of students involves a conversation between a stream counsellor; who should be an expert in his field, he should possess all the skills, abilities, knowledge and information regarding the job openings, prospects, opportunities that are available and possess the ability to effectively communicate with the person who is seeking counselling and guidance. Due to this pandemic situation as 10th students have been promoted, they need a proper guidance to select their stream. So as we are not able to move out of our door steps one can take benefit of these online consultation and choose their stream wisely. In this project, we have conducted research in order to recognize the significance of stream guidance and student counselling; the main areas that have been underscored in this project is how in this pandemic online counselling as gained importance and why is it so mandatory to go for online consultation.

Keywords: Design, Types of Users, Use Case Diagram for Counseling, Pros, Cons.

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182 A novel approach to improve Chat Bot accuracy using Natural Language Processing

Paper ID V7I3-1590 · Pages 867-871 · Artificial Intelligence

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Chat bots are finding increasing usage these days in applications ranging from simple automated FAQ's to sophisticated e-commerce buying recommendations. The technology powering these bots has undergone tremendous improvements thanks to new age sciences such as Machine Learning, AI and Natural Language Processing. Although chat bots have come quite far in effectiveness and imitating real humans, there's still lapses and areas where they can be improved in order to make them much more powerful and closer to human interaction. This is the main aim of the proposed work where one such limitation has been considered and attempt to address it by utilizing Natural Language Processing.

Keywords: Artificial Intelligence, Machine Learning, Natural Language Processing, Chatbot

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183 RFID-based health services for remote areas

Paper ID V7I3-1596 · Pages 872-875 · Electronics And Telecommunication Engineering

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Nowadays healthcare technology is aiming towards empowering people to live a healthier life with the help of IoT. The health care industry has been adopting and utilizing information and communication technologies (ICT) for efficient health care administration. Recent developments in wireless sensors, communication and information network technologies have created a new era of the Internet of things (IoT)1. The concept of the automated health care system and smart medical devices bears enormous potential for the well-being of people majorly in remote areas. Patients who can not visit the hospitals regularly can be constantly monitored using IoT-driven monitoring. This type of solution includes sensors to collect comprehensive symptoms as well as information and uses gateways and send the analyzed data wirelessly for further analysis and review if needed. It replaces the process of having a health professional come by at regular intervals to check the patient's vital signs, instead of providing a flow of information at certain intervals. The main aim of our project is to provide an alternative to the current system in rural areas and providing basic level diagnosis as well as prescriptions and ambulance support if needed by the use of technology.

Keywords: RFID, PIC Microcontroller, Healthcare Device, GSM Module

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AR based smart education in android platform using unity

Paper ID V7I3-1599 · Pages 876-880 · Computer Science And Engineering

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Augmented reality is a rapidly growing subject of computer science and technology study. AR brings technology to life by allowing users to interact with their surroundings in real time. Information and communication technology now supports the growth of human contact with physical, computer, and virtual environments in fields such as science, commerce, banking, and education. This technology is a part of computer science that concerns with the merging of reality and computer-related data. It is common knowledge that our existing educational system falls short in several areas. We still follow the traditional blackboard method of teaching which fails to provide every student with proper guidance. By introducing Augmented reality into the education system, teachers can convey their knowledge more precisely and in a very attractive manner. Some concepts are difficult to understand and even harder to properly depict and present in a textbook. However, augmented reality serves as a new medium where it is much easier to achieve. In this application the topics can be observed in 3D graphical image and video format replacing the traditional 2D view. This system is designed to provide virtual training to the hyperactive person as well to conduct intelligent assessment to the same person. Therefore this deployment can also be done for creating a classroom environment for all the learners, which initiates more interaction to learners via MQTT protocol , and they can see all practical implementation of their subject through a virtual mode, reducing learners' stress in understanding a subject. This system will help the students to view the 2D images in 3D which gives students better visualization and helps it easier to understand various layers, structures which otherwise is difficult to understand based on just a 2D structure.

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Keywords: Augmented Reality, Marker Detection, Rendering

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185 An Inclusive design approach for visually challenged

Paper ID V7I3-1281 · Pages 881-887 · Visually Challenged

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Fashion designers and brands have been developing garments taking specific consumers, including people with some sort of disability. The main purpose of this project is to analyse the challenges faced by visually challenged young women and develop inclusive design approach to non-discriminate them from experiencing fashion through the research of elements, aspects and concepts that can be useful for this cause. During research, informative papers, articles, studies were found to address inclusive design approach as a useful tool for the development of inclusive products for the physically challenged.

Keywords: Inclusive Design, Visually Challenged, Inclusivity

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186 Effects of addition of Carbon Nanotubes on the properties of concrete

Paper ID V7I3-1352 · Pages 888-890 · Civil Engineering

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Nowadays, Environmental pollution is one of the greatest problems the world is facing which is causing grave & the damage which is not reparable to the world & about 40% humans have died due to air, water & soil pollution. India is now the 4th country in the world to generate nearly 2,454,938 kilo tonnes is carbon dioxide per year. To reduce the carbon emission we can use a material which is called carbon nanotubes (CNT's). Carbon nanotubes are the materials which have special properties & great potential in various Civil engineering structure. We can convert the waste gases coming from the industrial & automobile or vehicular exhaust or furnace into nanoparticles called carbon nanotubes which is almost three thousand times stronger than steel & one-sixth of its weight. Carbon nanotubes are currently receiving more interest because is their’s extremely good mechanical properties & are now know to be materials of the 21st century. In the present study the effect of the addition of carbon nanotubes on the properties of concrete to be studied. And the comparison between carbon nanotubes & conventional concrete will carry out.

Keywords: Carbon Nanotubes (CNT’s), Carbon Dioxide, Nano-material, Durability, and Strength

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187 Condition monitoring of single-stage gear pair using vibration analysis

Paper ID V7I3-1629 · Pages 891-897 · Mechanical Engineering

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In this study, an involute gear pair is designed and fabricated. A test rig is assembled to carry out the experiment in which the driving gear is subjected to different crack levels and its vibrational signatures are studied using vibrational analysis. Generation of a two-level severity root crack on the gear model for the simulation segment is done using SOLIDWORKS, and cracks of the same dimensions are replicated on the fabricated gear using a Wire-Cut Electrical Discharge Machine. The vibrational properties of the motor are then recorded under different speeds and loads for both crack severities and are compared to that of a flawless gear of the same properties and dimensions. This further allows us to observe the effect of operational parameters on the vibrational properties of the motor that runs the defective gears. This study reveals the relationship between the waveforms of the vibration and cracks severity of the gears along with parameters such as varying speeds and loads.

Keywords: Gear Pair, Test Gear Assembly, FEM, Vibrational Analysis, Time Waveform, PSD, TSA, MATLAB

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188 Body-on-a-chip: Microfluidic based futuristic approach for Drug Screening

Paper ID V7I3-1534 · Pages 898-902 · Biomedical Engineering

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Preclinical testing using animal models has been crucial in drug development process, but issues of ethical factors and species variances still remain. However, human derived in vitro cell-based assays are being actively practised to study drug’s pharmacokinetics and pharmacodynamics. Although, current in vitro cell assays give the drug's potential therapeutic benefits, it is only specific to a tissue but not to an entire body to accurately predict the compound’s efficacy, toxicity and inter-organ interactions. In recent years, ever-growing scientific research and innovative advancements in microfabrication technologies have impacted notably on bioengineering and biomedical engineering. One such approach is ‘Microfluidics’ that has emerged as a powerful tool to provide the opportunity to stimulate different organs. The technology of organ-on-a-chip has made it probable to physically and chemically recapitulate the in-vivo conditions by utilising microfluidic approach. Till now, in vitro models of multi-organs including the gut, liver, kidney, lung, heart, and bone have been developed to mimic the organ physiology. Likewise, an integration of multiple organs on a microfluidic platform known as body-on-a-chip model has also been proposed to replicate organ cross talk. This review provides a overview on cell culturing within microfluidics systems, design, fabrication of biochips, organ and body on a chip models, and its applications in the coming future.

Keywords: Microfluidics, organ-on-a-chip, body-on-a-chip, microfabrication, drug screening.

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189 Design and optimization of passenger car tie rod by using numerical and experimental approach

Paper ID V7I3-1559 · Pages 903-905 · Automotive

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In Today's world, increasing competition & innovation in automobile sector which tends to modify the existing products or replacing old products by new and advanced material products is in lower price. Hence, every organization is striving for cost effective product at a lower price and within minimum period of time to market. Engineer keeps pressure for consistently strive to design the most effective products at lower price. In this paper, the work is focus on functioning of the tie rod, the methods of its performance evaluation and its optimization using numerical & experimental approach. Wheels alignment is ensured through Tie Rod which results the adjustment of wheel alignment that keeps the inner and outer edges of the tires from wearing. Hence, the tie rod functioning is most important for steering and suspension performance of vehicle. After analysis, hollow Tie rod with 11.0mm ID is select which gives 12.12% less weight than solid tie rod, without failure.

Keywords: Tie Rod, Weight optimization, Transient Dynamic Analysis

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190 Network security and cryptography

Paper ID V7I3-1592 · Pages 906-910 · Computer Science

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With the outcome of smart technologies from the World Wide Web and the emergence of ecommerce applications and social networks, organizations across the world generate a large amount of data daily. Information security is the most extreme basic issue in guaranteeing safe transmission of data through the web. Also network security issues are now becoming important as society is moving towards digital information age. As more and more users connect to the internet it attracts a lot of cyber-attacks. Its required to protect computer and network security i.e. the critical issues. The pernicious hubs make an issue in the system. It can utilize the assets of different hubs and safeguard the assets of its own. In this paper we provide an overview on Network Security and various techniques through which Network Security can be enhanced i.e. Cryptography.

Keywords: Security, Cryptography, Encryption, Decryption, Threats

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191 Intrusion detection through face detection

Paper ID V7I3-1593 · Pages 911-913 · Computer Engineering

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The aim of this paper is to develop a security system for remote employing a small computer. Surveillance is becoming a requirement in any public or private area to cope up with increasing number of threats ranging from burglary, robbery to terrorist activities. the normal methods for monitoring are commonly confined within the use of CCTV cameras. Technology takes a neighbourhood of our lifestyle, it also became a confidant of our privacy like the surveillance camera which is out there everywhere and its presence has prevented many cases of robberies and crimes. IP cameras are key devices for a video closed-circuit television. This paper introduces a price effective, power efficient and low-profile IP camera.

Keywords: Face Detection, Python, Tkinter, Open-CV, Haar-Cascade

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192 A review of decentralized storage and sharing system using blockchain

Paper ID V7I3-1605 · Pages 914-919 · Blockchain

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A Decentralized application that would help in storing any type of files online without using any third-party software. Important documents are good to be stored online so that one can access them from anywhere in the world from any device having an internet connection, but would be helpful only when it is stored on some trusted third-party software. These third parties may peep into the documents and can use them as data for personal use. There is also a chance of restricted service or the downtime of the software. This would turn out to be a nightmare. This system proposed a solution to this problem by using Decentralized applications using Ethereum Blockchain. This Dapp stores any type of files keeping any third party away from the process of storing data. As long as this Dapp is based on Blockchain technology, it is resistant to any kind of attack because of the use of the Ethereum platform having a default hashing algorithm.

Keywords: Decentralized Storage System, Decentralized Sharing System, Blockchain

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193 Autonomous car using ultrasonic sensor, Arduino controller

Paper ID V7I3-1607 · Pages 920-922 · Computer Engineering

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This project is will provide information about An Autonomous Car which is developed by using Arduino Uno Micro Controller with UltraSound technology supported with a servo motor. This robot will be able to move on its own and can turn left and right if it detects an object in front of it. The robot and its components get commands from a program written in C++ language. The robot is initially at rest and sends ultrasonic sounds from its sensor and receives it and returns the distance it founds in front of it. If the distance is not enough or it's is very less the robot moves a little back and then the servo motor rotates the ultrasonic sensor first to the right of the robot and then the ultrasonic sensor calculates the distance of the right. Then servo motor again gains its original position the turns left. The ultrasonic sensor again calculates the left distance and returns both left and right distance. then the robot to the direction in which it gets maximum distance.

Keywords: Microcontroller, Ultrasonic Sensor, Arduino, Encoder

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194 Machine Learning applied to Cervical Cancer Data

Paper ID V7I3-1612 · Pages 923-927 · It

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World Health Organization (WHO) calls cancer a generic term for a large group of diseases that can affect any part of the body. Sometimes it could be the cause of the loss of patients. Cancer mortality can be reduced if cases are detected and treated early. In this fact, it is important to determine someone has a high cancer risk by using a survey. In this study, a classification of patients due to their answers to a survey has been done to determine someone who has highly cervical cancer risk

Keywords: SVM, Risk, WHO)

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195 Street Light Monitoring System

Paper ID V7I3-1640 · Pages 928-929 · Engineering

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As of now, in the entire world, gigantic electric energy is devoured by the streetlamp; our venture for fostering a brilliant streetlamp framework is evaluated. The streetlamp framework, in which lights on when required and light-off when not required to diminish power utilization. They are naturally turn on when it gets dim within the sight of vehicles or walker otherwise turn off and furthermore turn off when it turns out to be brilliant. Streetlamp observing framework comprises of LED lights, Light Dependant Register (LDR), Ultrasonic Sensor, and so forth The framework additionally keeps up data set to store helpful data from every streetlamp like force utilization, complete number of consuming hours, all out number of interferences, count the real force utilization with the force provided and subtleties of issue location. Subsequently keeping up the framework with ideal force utilization giving business advantages to business and the thriving of the city all in all.

Keywords: LDR, LED, Ultrasonic Sensor, Arduino UNO

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196 Indian National Movements the Role of Women of Odisha

Paper ID V7I3-1613 · Pages 930-932 · Sociology

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The paper investigates the role of women of Odisha in various Indian National Movements, and doing so, specifically those women have been analyzed whose contribution is rarely discussed and debated in mainstream discourses. In this historical investigation, the question of patriarchy will also be evaluated that curbs the path of women’s development in the state.

Keywords: Odisha, Women, Indian National Movement, Patriarchy

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197 World Atlas

Paper ID V7I3-1625 · Pages 933-935 · Computer Engineering

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This paper describes a package configuration and information used for make an interactive world atlas. The result’s an easy interactive world atlas. The information area unit are divided into 3 levels of detail that area unit sometimes found in written atlases that area unit the globe, continents and countries. The likelihood of

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information in one level of detail is explored, too. Special care was given to map projections in information presentation. The result's that each map is made in line with information on projection choice for various geographical areas. Altas helps users to find out basic information regarding the country of the world. That includes a clean computer programme.

Keywords: Flow of method, Process, Android Studio, JSON, API

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198 Reliability improvement in Z-source inverter with redundancy

Paper ID V7I3-1568 · Pages 936-939 · Electrical

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The proposed work deals with the evaluation and improvement of a Z-source inverter using simulation. A Z-source inverter is a type of power inverter, a circuit that converts direct current to alternating current. It functions as a buck-boost inverter without making use of a DC-DC converter-bridge due to its unique circuit topology. MIL-HDBK-217F (Military handbook) is used to evaluate the reliability of this Z-source inverter. We have proposed a system that has been theoretically proved to have the lowest failure rate leading to reduced system repairing because of the use of redundant switches. The MTBF (mean time between failure) is high for redundant switches which will increase the life of the inverter. Simulation of the proposed system is done on MATLAB and a comparison of the reliability of the Z-source inverter is done with the results found theoretically. In a conventional inverter if one switch of inverter fails the complete leg will fail. Whereas in our case that is in Z-source inverter, because of the intermediate shoot through stage redundant switch will replace the failed switch thus saving it from failure.

Keywords: Z-Source Inverter, MIL-HDBK-217F, MATLAB, Redundant Switch

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199 Study of Molecular Markers in Agroforestry

Paper ID V7I3-1519 · Pages 940-945 · Biotechnology

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Agroforestry is the combination of agriculture and forestry on farms and agricultural lands. The primary goal is

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to create a healthy and harmonious symbiosis with forest trees and agricultural crops using conventional farming techniques. Agroforestry is highly beneficial as it is a sustainable food production method. The main advantage of planting trees in between crops is to prevent water runoff and soil erosion. Plants undergo several unfavorable conditions during their growth cycle. Such conditions include abiotic stresses like drought, temperature, scarcity of nutrients and high levels of salt in the soil. This adversely affects the yield and productivity of crops. Molecular markers play a significant role in identifying stress tolerant genes in many crops. This helps in enhancing crop production, yield and most importantly improving food and nutrition security. Thus, it helps in improving the income of farmers. In this article, we will be studying the use of molecular markers to improve Agroforestry. Molecular markers are the most effective tools for the analysis of gene tags, genetic variability, phylogenetic evaluation and improvement of new and exquisite cultivars. The markers used in tree improvement are RAPD (Random Amplified Polymorphic DNA), RFLP (Restriction Fragment Length Polymorphism), AFLP (Amplified Fragment length Polymorphism), SSR (Simple Sequence Repeats) or Microsatellites and SNP (Single Nucleotide Polymorphism). There are numerous advantages of using molecular markers in tree improvement as they been placed on the tree population, and it is been screened for a wide range of variety of physiological and quality traits. They play an important role in enhancing genetic gain for quantitative traits. With the help of molecular markers, they can do phenotyping, genotyping and also the construction on the tree populations. The selective markers are used to capture the extent of the genetic variation, as the diversity at the phenotypic level which is larger than the diversity at the marker level. Screening of controlled crosses in Neem tree, markers like M13, AP-PCR are used for germplasm identification; genetic mapping and breeding purposes are few among them. This project focuses on the molecular markers in tree improvement.

Keywords: Agroforestry, Gene Tags, Genetic Variability, Genotyping, Molecular Markers, Phylogenetic Evaluation.

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Food wastage reduction

Paper ID V7I3-1549 · Pages 946-948 · Computer Science Engineering

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There is growing evidence that a significant share of global food is thrown away, with concomitant detrimental repercussions for sustainability. Reducing food waste is a key sustainability challenge for the foodservice industry. Despite the significance of this issue to the global foodservice industry, the link between innovation practices and food waste management has received limited attention in the academic literature. This paper uses innovation management and social constructionism to investigate the interrelationships of foodservice provisions and innovations in waste management. It is based on the evaluation of food waste solutions and innovations that combine strategic dimensions of waste management with practice-driven initiatives, including incremental (processes and technologies) and radical innovations. The paper presents a range of waste management initiatives, showing that their implementation in the foodservice sector varies depending on management's beliefs, knowledge, goals, and actions. The concepts discussed here could help practitioners to become more aware of the factors that drive the adoption of food waste innovations. The prevalence of food

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waste has been a subject of interest and discussion in recent years and researches is being done to find effective ways to curb it. It has been identified as a primary issue in the sustainability of food production and consumption, in addition to the sustainability of food supply chains. Food waste can be divided into avoidable and unavoidable waste. Avoidable waste includes edible food and spoiled/damaged edible food, while unavoidable waste consists of inedible food like bones, fruit peels, and eggshells among others. Research shows that in Finland, 5% of purchased food is wasted in households, and an average person wasted about 20-30 kg of food in a year. The average total amount of food wasted in households yearly is about 120-160 million kilograms. Household wastage could be intentional or not. Many of the food wastage in households could be a result of forgetfulness or negligence for the food expiry date. In countries like Finland with the high cost of living, consumers are inclined to buy food nearing its expiry date due to the discount shop sellers attach periodically.

Keywords: Online Booking, Food Service Industry, Waste Management Initiative, Adoption of Food Waste Innovation, NGO's

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201 Lung Cancer Detection using Image Processing and CNN

Paper ID V7I3-1606 · Pages 949-957 · Medical Science

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Cancer is known to be one of the most dangerous health problems in the world and among it, lung cancer is known to be the most serious cancer with the smallest survival rate. The lung cancer risk population is also very high as compared to other deadly diseases, for example, cardiovascular diseases. Therefore, early detection of lung cancer is a must for survival. Nowadays, a lot of research has been done using Convolutional Neural Networks in the medical field. Image classification is one of the methods to detect cancer at early stages. First, the datasets for CT Scans are accessed from Kaggle. Images are refined with the pre-processing method. The image dataset will be trained on two different models namely~ Manual CNN and AlexNet. Further, the model producing the highest accuracy will be chosen and the processed images will be used to predict whether the CT scan image is malignant (cancerous), benign (non-cancerous), or normal.

Keywords: Lung Cancer Classification, Image Data Augmentation, 2d Convolutional Neural Network, Alexnet CNN

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202 Medical image encryption using DNA cryptography

Paper ID V7I3-1614 · Pages 958-962 · Image Encryption

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This paper proposed a novel cryptographic method for enhancing the security while transmission of image. Image which covers highest percentage of multimedia data, its protection is at most important. In image

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encryption methodologies, the pixels of original images are either manipulated or information is laid inside the image using the image as a cover to protect the data from undesired receivers. Scope of the project is to ponder on different ways of securing image data. Being a part of this digital world security becomes the most toughest and important things to handle. On the other hand hacking is also a growing domain which is used to track out a lot of information to solve a lot of digital criminal issues. DNA (Deoxy Ribonucleic acid) molecules, having the capacity to store, process and transmit information, inspires the idea of DNA cryptography. This combination of the chemical characteristics of biological DNA sequences and classical cryptography ensures the non-vulnerable transmission of data. In this paper review has been made about the present state of art of DNA cryptography.

Keywords: Cryptography, DNA Cryptography, Cloud Security, User level security, Strong Key Generation, Data Encryption, Data Decryption.

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Efficient Low Power FIR Filter Design

Paper ID V7I3-1646 · Pages 963-965 · Master Of Engineering

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A filter may be required to have a given frequency response, or a specific response to an impulse, step, or ramp, or simulate an analog system. Depending on the response of the system, digital filters can be classified into Finite Impulse Response (FIR) filters & Infinite Impulse Response (IIR) filters. The thesis deals with design of generic 30-tap FIR filter on FPGA. The thesis is focused on Design structure and occupied silicon space, needed for implementation of filter in FPGA. The results are IP macros of simple FIR filter that are full configurable using generic parameters. Both macros were verified in a verification environment which consists of test blocks (VHDL) and a comparative model (Matlab). A design of generic FIR filter is described in this work. Next there are described final designs of the IP macros, results and process of the verification, implementation and gate-level verification Design of area and power-efficient high-speeddata path logic systems are one of the most substantial areas of research in VLSI system design. In digital adders, the speed of addition is limited by the time required to propagate a carry through the adder

Keywords: Multipliers, FIR, Buffer, Adder, Low power

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204 Self Help Health Care Chatbot

Paper ID V7I3-1616 · Pages 966-970 · Google

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Chabot can be described as software that can chat with people using artificial intelligence. These software are used to perform tasks such as quickly responding to users, informing them, helping to purchase products and providing better service to customers. In this paper, we present the general working principle and the basic concepts of artificial intelligence based Chabot's and related concepts as well as their applications in various sectors such as telecommunication, banking, health, customer call centers and e-commerce. Additionally, the results of an example Chabot for donation service developed for telecommunication service provider are presented using the proposed architecture.

Keywords: Chatbot, E-commerce, Health Care

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205 An automated system to limit Covid-19 using facial mask, temperature and age detection

Paper ID V7I3-1618 · Pages 971-972 · Machine Learning

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COVID-19 pandemic caused by novel corona virus is spreading until now all over the world. The impact of COVID-19 has been fallen on all sectors of development. The healthcare system is going through a crisis. Many precautionary measures have been taken to reduce the spread of corona virus where wearing a mask is one of them. In this paper, we propose a system that restrict the spreading of COVID-19 by finding people who are not wearing facial mask in a smart city network where all the public places are monitored with cameras and also detecting the age and temperature of the persons who are entering in public places like malls, restaurants, etc.. While a person without mask is detected, the corresponding authority is informed through the proposed system. This paper presents a simplified approach to achieve this purpose using some basic Machine Learning packages like TensorFlow, Keras, OpenCV and MobileNet. It is hoped that our study would be a useful tool to reduce the spreading of this disease for many countries in the world.

Keywords: Coronavirus, Covid-19, Machine Learning, Face Mask Detection, MobileNet, TensorFlow, OpenCV

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206 Effect of Transcranial Direct Current Stimulation (tDCS) on Plantar Flexor Spasticity by using H reflex

Paper ID V7I3-1633 · Pages 973-978 · Physiotherapy

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A spastic ankle reduces walking velocity and mobility resulting in impaired gait and difficulty in ambulation. Increased plantar flexor spasticity has a devasting effect on the dorsiflexion range and also contributes to increased energy consumption during gait. H amplitude as the objective measurement is more accurate in assessing spasticity by using the H reflex. Objective: To determine the effect of various types of tDCS on plantar flexor spasticity by using H reflex and also to know which type of tDCS is more efficient in the reduction of plantar flexor spasticity Methods: A total of 30 participants were included in the study with plantar flexor spasticity. patients were randomized into 4 groups using the chit method. All Patients were evaluated for spasticity grade by using the modified Ashworth scale (MAS). H reflex was assessed for all patients followed by application of Cathodal tDCS for group 1 (n=8), Anodal tDCS for group 2 (n=7), Bi-hemispheric tDCS for group 3 (n=7) and sham tDCS for group 4 (n=8) for about 20 minutes. Post tDCS intervention all patients were reassessed for plantar flexor spasticity by H reflex and MAS scale Results: All the groups have shown significant reduction of spasticity post cathodal tDCS. The mean improvement of cathodal tDCS was found to be -0.9275 anodal tDCS was found to be -0.5229, bi-hemispheric tDCS was found to be -0.3357 and sham tDCS was found to be -0.4988. Conclusion: cathodal tDCS application has shown a reduction of spasticity after tDCS application in plantar flexor spasticity patients. This study concludes that cathodal tDCS over the ipsilesional hemisphere is a treatment modality.

Keywords: Cathodal tDCS, Anodal tDCS, Bi-Hemispheric tDCS, and Sham tDCS, Spasticity, H Reflex

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207 Design and development of Electromagnetic Braking System

Paper ID V7I3-1638 · Pages 979-982 · Mechanical Engineering

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These are totally friction less. Electromagnetic brakes are the brakes working on the electric power & magnetic.An Electromagnetic Braking system uses Magnetic force to engage the brake, but the power required for braking is transmitted manually. Electromagnetic braking system is a modern technology braking system used in light motor & heavy motor vehicles. This system is a combination of electro- mechanical concepts.It also reduces the maintenance of braking system. An advantage of this system is that it can be used on any vehicle with minor modifications to the transmission and electrical systems. An Electromagnetic Braking system uses Magnetic force to engage the brake, but the power required for braking is transmitted manually. The disc

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is connected to a shaft and the electromagnet is mounted on the frame .When electricity is applied to the coil a magnetic field is developed across the armature because of the current flowing across the coil and causes armature to get attracted towards the coil. As a result, it develops a torque and eventually the vehicle comes to rest. These brakes can be incorporated in heavy vehicles as an auxiliary brake. The electromagnetic brakes can be used in commercial vehicles by controlling the current supplied to produce the magnetic flux. Making some improvements in the brakes it can be used in automobiles in future.

Keywords: Components, Electro Magnetism, Fade

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Web Based Network Element Resource and Information Tool

Paper ID V7I3-1645 · Pages 983-986 · Computer Engineering

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Web based network element resource and information tool (NERIT) which is the new technical way to maintain and keep track the network elements (NE) information It also keeps on updating NE information like software version, allocation period, NE connection details and NE health status. Users can access all the NE information details in a single window interface. NERIT is helpful for network service providers which reduces the network operation costs. While traditionally different solutions were available in the market for manual maintenance of NE details, but it is a tedious process and time consuming. In our proposed system, user can view all the required NE information. Proposed methodology, created an graphical user interface (GUI) for the NERIT with the help of web technologies and tools and it allows user to interact directly with the application. To maintain and monitor the NE's MySQL database management system is used. To connect the GUI and database management system Nodejs Express framework is used. The data will be stored in the remote server. The Admin or Superuser should be a register user. The admin or superuser can login into their account through the application itself and update the network elements information like NE IPs, credentials, their allocation period, availability, reachability, hardware details, software details, location etc. In NERIT application users have easy access for viewing and searching all the NE information. The application will check user authentications. Users are not permitted to manipulate any data only admin and superuser can manipulate the data. Other than this the advanced features are: Bulk addition of NE's ,automating the allocation process and software version update .In case of any NE allocation is about to expire means it will send notification to the user for whom NE is allocated, so they can take required actions. The users can download the NE information file which includes all the NE details NERIT also has the feature for user feedback, which will enable to further enhance the functionality of the platform and add many more features to it. Performance of the application can be improved and speed up by using HTTP/2 , optimizing the MySQL query and clustering the NodeJS.

Keywords: Network Elements, Web application, MySQL, NodeJS, feedback and performance

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209 Sentiment analysis using Supervised Learning Methods

Paper ID V7I3-1621 · Pages 987-990 · Machine Learning

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As the organisations are getting bigger and bigger the need to make well informed decisions are ever more important. To do that however you need data. But is data enough. How is one to interpret the data to their advantage? How is one meant to sift through all of the data to find the specific ones that are meant to be relevant to the task at hand. For that you need a all-in-one solution. One that can handle all of that for us. This project targets the online product reviews. For an organisation that aims to sell products through online platforms like Amazon, Flipkart and other require a way to analyse all the product reviews to get information on what is performing well and what isn't. For that it is important that the sentiments are analysed where it predicts where the review is positive or negative and what aspects of the review are negative or positive. It needs to give a numerical and visual representation which is helpful when it required to present the data to someone. All of these issues are addressed with the help of this application. It is built in python using pre-existing well-known libraries. Which also means that it is verified by many.

Keywords: Sentiment Analysis, Opinion mining, Logistic Regression, Machine Learning, Natural Language Processing

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210 TravelBRAT – WEB application

Paper ID V7I3-1639 · Pages 991-993 · It

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Inspired by the idea of changing the world of travel websites, we thought there hasn't been an evolution when it comes to websites. Normal websites don't provide enough exposure to what the user wants and provide only limited amount of functionality. This project was solely focused to make the user like the concept of this application and would expose them to the idea of new destinations in a better interactive manner than the current travel websites.

Keywords: Itinerary, Application Programming interface, Attractions, Booking.

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211 Plight of the Subaltern woman in Mahasweta Devi's "Draupadi"

Paper ID V7I3-1642 · Pages 994-997 · English Literature

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ABSTRACT Europeans identify them with 'Eurocentrism' and observe themselves as dominant and superior, and their colonized land as inferior to them. The colonizers are concerned about the possibility of being contaminated by the interaction with the colonized people and have always been frightened of this interaction,

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thereby leaving behind their supremacy and power over the colonized, consequently, the colonizers consider the interaction as a menace and disguised their fear. This study examines Mahasweta Devi's "Draupadi" which reflects the Subaltern concept which is one of the significant concepts of Postcolonialism. It was popularized by Gayatri Chakravorty Spivak's essay titled, "Can the Subaltern Speak?" (1985). The status of women in the society, predominantly marginalized is engrossed with the sense of negligence. These marginalized women are suffering in terms of their gender, class and caste discrimination. These women are not provided any authority with regard to their own self and existing. The marginalized women live on the edge of the domination and anguish. This paper persistently attempts to re-examine the marginalization of the tribal woman with reference to Mahasweta Devi's "Draupadi", which is a metanarrative, capturing the life and times of its protagonist Dopdi Majhen, a Santhal tribal, at the intersection of modern developmental state and subsistent subaltern survival. It raises the issues of class, caste and colonialism, and their collusion in the formation of hegemonic patriarchal nation state and how this mainstream formation maintains itself through violent 'othering' of the margins. Mahasweta Devi is one of the contemporary woman writers who deal with the forms of oppression in her works. She is considered as one of the boldest of Bengali female writers whose works are associated with the rural tribal community of West Bengal, women and dalits. Feministic aspect is observed in her works through the sympathetic portrayal of women and their consequent revolt. She exemplifies the sufferings of women, miseries and their power of enduring and resistance. She also deals with the women issues like loneliness, separation, women's fight for survival, exploitative situations like rape, marital violence, death and its loss and female slavery. Critics like Gayatri Chakravorty Spivak view Mahasweta Devi's works as rich sites of feminist discourse.

Keywords: Postcolonialism, Eurocentrism, colonizer, colonized land, marginalization, subaltern, hegemonic patriarchal, 'othering' of the margins, feminist discourse.

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212 Combined Sine-Logistic chaotic map and its application in an image encryption scheme

Paper ID V7I3-1643 · Pages 998-1008 · Image Security

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With the rapid growth of technology, Information Security has become a significant concern in the contemporary world. Today, many new-fangled methods have been developed to transmit data in a fast and secure way. Among all the data that is being transmitted, digital images play a vital role. About 60 percent of the data that is being transmitted is in the form of digital images. These digital images require a safe and concealed method of transmission. Researchers have developed many concepts to execute image encryption like chaos theory, data encryption standard (DES), image filtering technology, advanced encryption standard (AES), neural network-based image encryption, DNA coding, fractional Fourier transforms, quantum theory, and compressive sensing. In the late years, additional scholars have focused on executing chaos theory in image encryption schemes due to large key space's advantages and high-level security. In the project, we have provided a new logic for digital image encryption. This method combines the usage of the logistic map and sine map to create a new chaotic map. By doing this, the randomness, sensitivity and robustness are further increased. The proposed system used row by row and column by column confusion and diffusion mechanisms,

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which increases the security multi-fold. Unlike conventional methods, this method uses scrambling pixels from their actual rows and columns and applies bit-level manipulation to each pixel. This disrupts the interrelationship between adjacent pixels of the ciphered image. Further, the security and simulation analysis show that 1DSP-1E has a greater level of reliability than the other encryption schemes

Keywords: Encryption, Decryption, Key Space, Logistic Space, Sine Map

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213 Preliminary phytochemical screening and Invitro antioxidant activities of “Antidesma alexitera L.” leaf extract

Paper ID V7I3-1603 · Pages 1009-1017 · Ethnopharmacology And Ethnomedicine

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There is no plant in the world that is non-medicinal, or which cannot be used as medicine is used as medicine. Folk or traditional systems of medicines always played an imperative role in the global healthcare system. Antidesma alexiteria L (Thalimaram), belongs to the Phyllanthaceae family. Antidesma species has been used in many traditional medicines to treat diarrhea, skin complaints, hemorrhages, and abdominal disorders. The present study focuses on the preliminary Phytochemical screening and evaluation of the antioxidant potential of Antidesma alexiteria L. For qualitative analysis, standard tests were used to identify phytochemicals present in the extract and confirmed the presence of carbohydrates, coumarins, glycosides, saponins, phenols, and phytosterols. Leaf extracts were also subjected to total phenolic content(TPC), total tannin content (TTC), and total flavonoid content(TFC). In quantitative estimation, the TPC content of each extract was 24.13, 32.65 & 3.89 mg of GA/g extract, TFC was 230.38, 493.85 &217.15 mg of Ru/g extract and total tannin were 613, 503 &39.67 mg of CTN/g extract respectively. Antioxidant properties of the three extracts were evaluated using DPPH assay, Nitric oxide scavenging activity, and total antioxidant activity. Ascorbic acid was used as standard. In DPPH free radical scavenging assay IC50 value of alcoholic, hydroalcoholic, and aqueous root extracts were found to be 650.7,534.1 and 7704.18µg/mL respectively. For the Nitric Oxide Radical Scavenging assay IC50 value of alcoholic, hydroalcoholic, and aqueous root extracts was found to be 928.9, 354.6, and 380.24 µg/mL respectively. The total antioxidant activity of the plant extracts was calculated from the calibration curve of ascorbic acid, and the results showed 49.76, 44.97 and84.14 mg of AA/g activity for ethanolic, hydroethanolic, and aqueous extracts respectively

Keywords: Antidesma Alexiteria L, Antioxidant Potentials, Leaf Extracts, Phytochemical Constituents

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214 Ban on Chinese apps

Paper ID V7I3-1657 · Pages 1018-1019 · Apps

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India and China were maintaining good relationships with each other in several ways economically, politically, culturally etc. Both are members of several international cooperation bodies like the United Nation system organizations, BRICS etc. Chinese troops attacked Galwan Valley at Ladakh and in this face off 20 Indian army personnel were killed. Also, several news came regarding compromise with privacy of data of the Indian users who were using Chinese applications. So in light of these burning issues and the losses that Indian citizens suffered, government of India after thinking pros and cons and all the aspects legally, financially and economically banned 59 Chinese apps to safeguard the, sovereignty and integrity of India invoking powers under 69A of the Information Technology act read with relevant provisions of the Information Technology Procedure and Safeguards for blocking of access of information by Public Rules, 2009).

Keywords: Chinese Apps, Ban

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215 The Economics of Disarmament and Arms Control through the Gorbachev era

Paper ID V7I3-1663 · Pages 1020-1025 · International Politics

Dr. Soumen Dhar Choudhury, Professor, Jawaharlal Nehru College, Pasighat, Arunachal Pradesh

The paper examines the economic crisis in the Soviet Union and, in this context, analyses why arms control was so important from the Soviet point of view. It further discusses the organic relationship between disarmament and development and rounds with a case for conversion of Soviet military economy. The 'administered' economy of the Soviet Union was in glaring contrast to the 'market economies of the West. Unlike the Soviet-type command economy, the Western capitalist economy had capital-intensive production, private proprietorship, competition between firms, production for the market and global reach.

Keywords: Gorbachev, Soviet economy, military expenditure, disarmament, arms control, defence expenditure, defence industry, military spending, conversion

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216 Online car rental system using PHP

Paper ID V7I3-1617 · Pages 1026-1028 · Computer Science

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Our aim is to design and create a data management system for a car rental company. This enables the admin

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can rent a vehicle that can be used by a customer. By paying the money for a specified period of time. This system increases customer retention and simplifies vehicle and staff Management in an efficient way. This software, Supercar Rental System has a very user-friendly interface. Thus the users will feel very easy to work on it. By using this system admin can manage their rental, Bookings, customer issues, and vehicle issues, etc.... The Supercar information can be added to the system. or existing supercar information can be edited or deleted too by the Administrator. The transaction reports of the car rental system can be retrieved by the admin when its required. Thus, there is no delay in the availability of any car information, whenever needed the supercar information can be Captured very quickly and easily.

Keywords: PHP, MySQL, Car-rental, Admin.

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217 Smart Agriculture with Internet of Things

Paper ID V7I3-1661 · Pages 1029-1036 · Internet Of Things

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Now a days in market, the sensors used in agricultural sectors are not integrated together, they are individually available. So, we have developed a system where these sensors are integrated, and all the data is shown on a Mobile App. Some of the sensors used in our system are in house designed and fabricated. The system provided by us is more sensitive than some of the readymade sensors available in the market leading in precise values of the parameters of the agricultural land. And, the idea is to develop a multilingual mobile application which will communicate with on field hardware to show real-time data to user. The application will also show the trends and crop suggestions to farmer. With Animal intrusion detection system, farmers will be able to protect their crops from harm caused by wild animals. In the further part of the paper, the components and the software systems are discussed which were used in the development of the system, and at last, the challenges and future scope of “Smart Agriculture System”.

Keywords: Internet of Things, Precipitation Sensor, Soil Moisture Sensor, Raindrop Sensor Module, Animal Intrusion System, NPK Module

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218 Smart banking machine using ATM card

Paper ID V7I3-1665 · Pages 1037-1039 · Computer Science And Engineering

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Automated Teller Machine (ATM) services measure a lot of widespread attributes like flexibility and easiness for banking systems. Individuals measure wide maltreatment their ATM cards for immediate cash transfer, money withdrawal, checking balance etc. To acquaint with excessive protection, we generally tend to introduce face reputation-primarily based totally consumer authentication gadget. The main objective of this project is to develop high secured system for ATM services for multiple bank accounts. It reduces the value of put down banking transactions as interfacing completely different bank databases may be a resource overwhelming issue. In this security system, the authorized person will swipe the RFID card and enters the PIN, two level of security is implemented throught Iris recognition module. A telegram app is applied to ship OTP to offer authorization to perform the transactions. The developed system affords multi banking facility through smart card so that high level of security, flexibility and economic executions are brought in. This gadget is of better convenience, low-cost and consumer friendly.

Keywords: Access Control, Security, Iris recognition, User Friendly

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219 Harvesting Energy Through Rotation of Doors

Paper ID V7I3-1677 · Pages 1040-1044 · Mechanical Engineering

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This paper deals with the designing, manufacturing, and working of a mechanical-electrical device that will convert the rotational energy produced by doors to electrical energy. This device will use a planetary gear system, generator, batteries, and other electrical appliances. This device will not only convert the rotational energy into electrical energy but can also store the generated electrical energy to be appropriately used.

Keywords: Batteries, Electricity, Gear train, Generator, Regenerative energy, Rotational energy.

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220 **Value Stream Mapping (VSM) – A Case Study in Manufacturing Industry**

Paper ID V7I3-1678 · Pages 1045-1048 · Engineering

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Value is needed performance at minimum cost. Each activity must add value in the organization. If there is no Value addition, then it in Non-value addition activity which is treated as Waste. Waste is undesirable & results in organization's downfall. This paper applies the principal of lean in manufacturing facility with a purpose to eliminate waste. Value Stream Mapping tool was used to expose the waste in the process flow and identify the kaizen activities required for improvement. The results achieved in the proposed plan showed significant improvements in the productivity and better utilization of resources with high quality service.

Keywords: Lean Methodology, Value, VSM, Current state VSM, Future state VSM, etc

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221 **Logotherapy as a framework of a cure for COVID-19**

Paper ID V7I3-1653 · Pages 1049-1051 · Literature

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At times, human existence is resisted by certain external forces and affirms that there exists a meaning in suffering similar to the meaning in life. Suffering is an integral part of life like fate and death, without which life is incomplete. An external force, be it a war or a dreadful pandemic outbreak, may possibly hem in people for an unknown period of time. Such provisional existence in a confined space affects balance in the psychological state of mind. The decline in the belief in the future predominantly lingers in the minds of people. This paper attempts to view the ongoing pandemic period of COVID-19 through the lens of Logotherapy, a theory propounded by Viktor Frankl in his book Man's Search For Meaning. It also highlights that holding on to the inner self is the only way out of suffering.

Keywords: Human Existence, Sufferings, Logotherapy, COVID-19

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222 **Women's education- society's pride: The context of Arunachal Pradesh**

Paper ID V7I3-1670 · Pages 1052-1055 · Social Science

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The gender bias in educational attainment results from the discriminatory attitudes towards the girl child and their education. A number of studies have shown that societies and families are immensely benefitted when women are educated. In Arunachal Pradesh, educational infrastructures continue to be inadequate, however, its expansion, particularly since the 1980s, has been remarkable. Though gender bias can't be denied in the case of Arunachal's education the recent trend and progress in women's education in the state show great promises in the days to come. The present paper is an attempt towards understanding the status, problems, opportunities, challenges, and viable measures related to women's higher education in Arunachal Pradesh- a

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tribal-dominated state of mountainous eco-system. The basic consideration of the paper stands at “women’s education: society’s pride”.

Keywords: Gender Issues, Higher Education, HEIs, Status of Women

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223 DWT based on watermarking for palmprint recognition

Paper ID V7I3-1659 · Pages 1056-1058 · Digital Image Processing

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Human palm print can also additionally be a extensive spreading biometric feature that has been accustomed find out a person identity. During our implementation we are enforced a strong palm print recognition and copyright safety supported 3-stages a can reproduction photo with useful resource of using treatment alpha blending approach. Alpha Blending Technique is a procedure which renders extra than one photographs proper into an unmarried ancient past photo in separate passes and makes into one very last photo. The acquired photo ought to be tons like the virtual photo which become given as an input. All the outcomes acquired for the recovered photographs and the watermark are same to the procedure set of rules generated with the watermark are similar to the process algorithm brought on with the watermark explains the experimental by having the recovered image and the watermarked image both have acceptable quality as compared.

Keywords: Watermarking, Embedding, DWT, Alpha Blending, Palm Print Recognition

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224 MRI brain image segmentation using soft computing techniques

Paper ID V7I3-1669 · Pages 1059-1062 · Digital Image Processing

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A brain tumor is an assortment, or mass, of strange cells in your cerebrum. MRI scan is usually used to help in analyzing brain tumors. Sometimes color might be infused through a vein in your arm during your MRI study. Any development inside a particularly limited space can cause issues. Brain tumors can cause cancerous or noncancerous in our cerebrum. Tumors are treatable whenever distinguished at the beginning phase. Generally, diagnosing or analyzing a brain tumor typically starts with magnetic resonance imaging (MRI). When MRI image shows that there is a tumor in the brain, the most widely recognized approach or method to decide the sort of cerebrum tumor is to take a gander at the outcomes from an example of tissue after a biopsy or medical procedure. X-rays make more nitty-gritty pictures than CT examines (see underneath) and are the favored method to analyze a brain tumor. The MRI image may be of the cerebrum, spinal line, contingent upon

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the kind of brain tumor suspected and the probability that it will spread in the CNS. In this project, our goal is to recognize the cerebrum tumor from the MRI pictures by utilizing Soft Computing. Picture Segmentation is done to remove important highlights and performing examination dependent on the division of pictures utilizing K methods bunching. Picture decrease is accomplished for quick handling of pictures utilizing the FCM method. The proposed framework can be generally utilized for the therapy of brain tumors utilizing clinical picture handling.

Keywords: Tumor, MRI Image, K Means Algorithm, FCM Method, Utilized Therapy

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225 Alternate-storage hydroelectricity project & risk assessment with bot models in the Indian context- A report

Paper ID V7I3-1683 · Pages 1063-1069 · Civil Engineering

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Alternate-storage hydroelectricity is an arrangement to store water in addition to the main reservoir in the nearby catchment area of the dam. This is an arrangement wherein hydroelectric energy stored in the alternate reservoir can be used by an electric generator for load balancing during the peak summer season when the demand is high. The method stores energy in the form of the potential energy of water-induced with gravitational force, stored in an alternative reservoir in the close proximity of the main reservoir. During periods of high electrical demand, the stored water in the alternate reservoir is released into the main reservoir through an intake tunnel and released through turbines to produce electric power. The cost incurred in the construction of an alternative reservoir with a series of water-retaining structures in the form of a weir or dam can be collected by generating revenue from selling more electricity during periods of peak demand when electricity prices are highest and also demand is more throughout the project life cycle.

Keywords: Pumped Storage Hydroelectricity, PSH, Alternate Water Storage Reservoir, Storage Dam, Green Battery, Run-of-the-River Power Project etc.

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226 Helmet Safety using IoT

Paper ID V7I3-1701 · Pages 1070-1072 · Internet Of Things

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The most common prey of a road accident is a person who is having a two-wheeler vehicle and the personswho lost their lives in these accidents are the ones who don’t wear helmets. There are many laws made but the result is null and void. To lessen the number of death and to make an efficient system, we have come up with the idea that if you will not wear a helmet you are unable to start your vehicle.

Keywords: Helmet, Two-wheeler, E-vehicle

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227 Development of bricks using textile sludge

Paper ID V7I3-1710 · Pages 1073-1077 · Civil Engineering

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Now a days the bricks are commonly consumed as a construction material. The textile sludge we are making the experiment of it for construction brick purpose for solid waste management .so there are lack of clay in the earth, so we consumed textile sludge to subsititute the clay this will lower the uses of clay in production of bricks . we have compared the sludge like 5%,10%, 15%, 20%

Keywords: Firing temperature, Textile sludge, Compressive strength, Water absorption

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228 Voice based home automation

Paper ID V7I3-1702 · Pages 1078-1081 · Iot

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Automation is a trending topic in the 21st century making it play an important role in our daily lives.The main attraction of any automated system is reducing human labour,effort,time and errors due to human negligence.With the development of modem technology ,smart phones have become a necessity for every person on this planet.Applications are being developed on android systems that are useful to us in various ways.Another upcoming technology is natural language processing which enables us to command and control things with our voice.Combining all of these,our paper presents a micro controller based voice controlled home automation system using smart phones.Such a system will enable users to have control over every appliance in his/her home with their voice.All that the user needs is an android smartphone ,which is present in almost everybody's hand nowadays,and a control circuit.When the first computers came around,achieving the level of sophistication so as to narrate commands using voice to a machine was only realised in science fiction.However with tremendous breakthrough in the field,we are at the precipice of truly using voice to interface with devices.

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Keywords: Voice Recognition, Home Automation, Aurdino, Bluetooth,12v 4channel Relay, Connecting Wires

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229 Viral vs Bacterial Pneumonia Image Classification using Transfer Learning

Paper ID V7I3-1704 · Pages 1082-1087 · Computer Science

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The Purpose of this Project is to Develop a Project to Detect Covid-19 Viral and Bacterial Pneumonia using Transfer Learning form Medical images. Covid 19 2nd wave is spreading Rapidly and more deadly than the first wave we need effective and accurate models to Detect Covid-19 using AI and the challenges are quite big we don’t have that big datasets so instead of building model from scratch we used prebuild CNN Model and Transfer Learning for accurate prediction on test Dataset. This one is just Binary Classification model which uses images Bacterial and viral pneumonia images for the training

Keywords: Tensorflow, Keras, Deep Learning, Transfer Learning, covid-19

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230 Google Loon: Balloon Powered Internet for All

Paper ID V7I3-1708 · Pages 1088-1093 · Computer Science

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The world has acknowledged the opportunities and possibilities the Internet offers. The Internet has been considered as a global community that is not only convenient, but genuinely helps to improve many different and important aspects of life including education, health, and economy. Sadly, only around 1/3rd of the global population at present has access to it. Providing cost-effective and efficient connectivity to rural areas is a very challenging task that has been given many different solution models over the years. One solution model that seems to offer a substantial business case is based on the Google Loon project, which provides many advantages. In this paper, we’ve tried to give an overview of the Loon project and also highlighted some key finds and observations.

Keywords: UAV, Google Loon, LTE, Internet for all

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231 Trickle Impregnation for insulating motors

Paper ID V7I3-1674 · Pages 1094-1095 · Engineering

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This is a method of insulating the windings of a motor with epoxy resin. There are different processes involved- preheating the windings, dispensing of resin and curing the resin by heating. Here only the trickling process has been performed where the resin is dispensed on the winding coil with help of pneumatic motor at a designated flow rate.

Keywords: Impregnation, Trickle, Dispensing, Resin, Pneumatic gripper

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232 A study on consumer behaviour towards UPI (Unified Payment Interface) payment application based in Nilgiris District

Paper ID V7I3-1686 · Pages 1096-1101 · Marketing

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It is imperative in the current period that digital payment is one important area where all the consumers and customers should be aware. The reasons are enormous like digital India and mechanization of e-documentation. Nowadays the physical payment mode becomes critical due to various reasons like time and safety. This enabled e-payment methods like internet banking and this again made simpler with android mobile phones. Keeping this concept the research work framed based on the consumer behavior towards UPI (Unified payments interface). The objective of this study is to know the Consumer awareness, Consumer Perception, and Consumer Satisfaction. The research design used in this study is descriptive research design, with the primary data collection method along with a structured questionnaire which constitutes 105 respndents and the statistical techniques used are chi-square, ANOVA analysis and Multiple Regression. On UPI payment application, the study was restricted only to the village Erumadu, Nilgiris district.

Keywords: UPI, Mobile phone, digital payment mode

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233 A Practical approach for Firmware Reverse Engineering

Paper ID V7I3-1488 · Pages 1102-1105 · Reverse Engineering

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Embedded products have become widely used entities in the network of households and enterprises. The exponential increment in its use has resulted in a lapse in security measures taken while building these products, leaving them vulnerable to security attacks. An important feature is that embedded devices work on what is commonly known as Firmware, Firmware, a piece of software that helps the embedded devices to work on the shared task. Securing the firmware will be an important step in securing the embedded product setup. To secure the firmware one needs to understand how the firmware works. One way to do so is to reverse engineering. Through reverse engineering, one can attempt to understand the device architecture, functionality, and potential vulnerabilities present in the device. A better understanding of the firmware implementation also helps in adding features if needed. This project aims to apply several types of reverse engineering techniques to increase the efficiency of reverse-engineering the firmware and find the vulnerabilities in a firmware-based setup. Also, estimate the level of damage the identified vulnerabilities can cause through rigorous penetration testing.

Keywords: Reverse Engineering Firmware Security

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234 Detection and identification of high-quality cereals

Paper ID V7I3-1694 · Pages 1106-1109 · Computer Science

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Agricultural product grading is helpful in assessing the quality of a product and classifying it into categories. Presently, the grade analysis procedures involve the manual analysis of grains which is highly subjective and is influenced by human factors and the working environment. Thus, determining the quality of grains is a big challenge. In this paper, we have proposed a system that determines the quality of grains using image processing techniques. A variety of approaches were utilized to automate the screening process through machine vision approaches. Initially, the grain samples run on the conveyor belt, and then random images of grains are captured by the camera. The image processing algorithm is applied to the grain samples through MATLAB. Quality analysis of rice grains is determined by morphological features of rice grains. Various standards and procedures are then used to determine grades for the sample under test. The process of grading helps farmers to get the value for their produce, particularly rice, depending upon the results of quality inspections. Deep learning and machine learning models involving image processing has been tried in this paper to observe the computational accuracy

Keywords: Image Processing, Machine Learning, KNN, Deep Learning, RNN

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235 64-bit Vedic multiplier with modified architecture and improved performance using Verilog

Paper ID V7I3-1707 · Pages 1110-1116 · Vlsi

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Vedic Maths is the ancient system of Indian mathematics. It has been extracted from 16sutras. Out of these 16 sutras, only one of these sutras named Urdhva Tiryagbhyam is used in this project. Urdhva is meant for Vertical and Tiryagbhyam is meant for the Crosswise multiplication process. This project is about designing of 8-, 16-, 32-, 64-bit Vedic multiplier with modified architecture and improved performance in comparison with a recent journal on 32-bit Vedic multiplier. And also 64-bit Vedic multiplier according to the reference journal is designed. The design of the proposed 64-bit Vedic multiplier consists of three stages, the first stage consists of four 32-bit Vedic multipliers, second stage has 96-bitcarry save adder and 95-bit modified carry skip adder in which internal stages consists of 8-bit and 16-bit Sklansky adders. and this design is implemented in XilinxISE14.7 and obtained a delay of 19.707ns, number of Slice LUT's of 6989, power consumption of 111mW. The selected device in Xilinx14.7ISE is xc7k70t-3fbg484 from the Kintex-7 family. And also the reference design(64-bit Vedic multiplier) is calibrated using XilinxISE14.7 with the same device and obtained a delay of 36.630ns, number of Slice LUT's of 8113, power consumption of 115mW.

Keywords: MCSKA (Modified Carry-Skip Adder), CSA(Carry-Save Adder), CSLA(Carry- Select Adder), SKA(Sklansky adder)

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236 Costing and Rate Analysis of GFRG And Conventional Structure

Paper ID V7I3-1725 · Pages 1117-1119 · Civil Engineering

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This research paper is about costing and rate analysis of GFRG structure and conventional structure. Being an engineer is our first priority calling for solutions that work for our customers. Increasingly prices, housing is affordable at current rates technology which is why we needed to explore other types of construction plans to reduce construction costs. This paper an effort made to give an idea of how we can do that reducing construction costs and reducing construction time uses pre-design technology. GFRG construction technology also known as Rapid wall construction technology in India. Glass reinforced with gypsum panels, as they are ready-made gypsum building panels have empty holes. This is Rapid wall employed in residential and commercial buildings-built institutions. GFRG walls can be used as part of the structure such as walls and slabs, without outer columns and beams are required.

Keywords: GFRG, Hollow panels, Cost Comparison, New Construction Technology, Affordable Housing.

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237 Simple Borders Creating National Complexities

Paper ID V7I3-1698 · Pages 1120-1123 · Defence

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National borders are lines that separate one nation's physical area from another nation. These borders usually help out in distinct identification of the nation's location and prevent misunderstanding of the ownership of a piece of land or a distinct location. Most of the times, the airspace, land borders and coastlines are exploited by neighbours to create new crisis for capturing national boundaries. The extreme terrains present in the Indo Pakistan and Indo Bangladesh borders are dense sites of illegal activities like smuggling and, illegal drugs, weapons and human trafficking. The borders shared by India with Pakistan and Myanmar are hotspots of terrorism and cross border attacks for land capturing. The Indo Bangladesh borders has areas of high political sensitivity as there are many misunderstandings and problems related to ownership of a particular area. This paper discusses about the Indian border issues and existing solutions to solve these complexities and future solutions to resolve these issues.

Keywords: Indian Boundary complexities, Land Borders, Coast Lines

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238 Roommate Finder

Paper ID V7I3-1720 · Pages 1128-1129 · Computer Engineering

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Accommodation in today's world has been soaring at high rates. In addition, getting a shelter that matches one's preference, budget, interest, and proximity is a challenge. This problem becomes, even more, bigger if the person looking for accommodation is a student. For students, factors like affordability, proximity to the university, a similar company, etc. matter the most. There are a number of websites and mobile apps that provide facilities for finding a suitable roommate and vacant apartment, but as of now, there is no such mobile app that helps to find roommates or apartments for a specific university. This application is aimed at trying to solve the major accommodation problem for university students. This application consists of a variety of features like sending messages, searching based on university name and address, potential match based on user's preferences, and shortlisting. This application is developed using Android API for the front end and Spring MVC for creating Restful web service and Google Maps API for location-based services.

Keywords: Android, App, Front End, Roommate Finder, Potential Match, Preferences, Room

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239 Preliminary phytochemical analysis of cactus stem extract

Paper ID V7I3-1728 · Pages 1130-1132 · Corrosion

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The phytochemical screening of aqueous solution of OpuntiaCochenillifera and CereusRepandus revealed the presence of certain important secondary metabolites. The preliminary phytochemical screening of the selected items was found to possess Proteins, Tannins, Carbohydrates, Phenols, Flavonoids, Saponins, Glycosides, Steroids, Terpenoids, and Alkaloids. It was concluded that this study clearly indicated that aqueous extract showed an elaborate qualitative analysis of the stem extract.

Keywords: Opuntia Cochenillifera (OC), Cereus Rapandus (CeR), Phytochemicals

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240 Use of humor in personal selling

Paper ID V7I3-1724 · Pages 1133-1134 · Marketing

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Every marketing strategy needs to be creative and new. Depending on the company's long and short-term goals, target market, and resources, it chooses what kind of marketing and advertising works best. Whether the company chooses Tele-marketing or billboards, the end sale usually happens through personal selling. Some of the most memorable advertising campaigns in recent history, regardless of company size and marketing budget, and whether broadcast, print, or online-only, have involved humor – so it is high time that personal selling incorporates humor too. The purpose of this study is to provide a better understanding of the usage of humor in personal selling.

Keywords: Personal Selling, Humour in Marketing, Unconventional Marketing, Sales Pitch

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241 Catia customization for Design and Modeling of Two stage spur Gearbox

Paper ID V7I3-1737 · Pages 1135-1143 · Mechanical Engineering

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In this paper, we describe how the customization of design task, in solid modeling with CATIA V5 for two stage spur gearbox can be approached, by means of macros (piece of code) and with GUI form. The user has to supply some basic requirements of the gearbox and rest of the different parameters for design of gearbox is calculated by formulas. And then with the help of these parameters, part model of gearbox is created.

Keywords: CAD, Catia, GUI, Macros, Design, Parametric modeling, two stage spur gearbox

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242 **Literature survey on Hyperspectral Image Compression Techniques**

Paper ID V7I3-1740 · Pages 1144-1147 · Hyperspectral Image Compression

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Hyperspectral images are the only type of images where we can verbalize about spectral resolution. The spectral resolution is defined as the interval or disseverment between different wavelengths quantified in a concrete wavelength range. Conspicuously, the more spectral channels acquired in a more diminutive wavelength range, the higher the spectral resolution will be in the scenario. Moreover, when a hyperspectral image is acquired, it is stored in a file where the spectra must be injuctively authorized in a logical manner in order to be able to reconstruct the data cube in any software. To store the file in the board or any device, have to use an algothirm to compress it in proper way to retrieve it again without any loss. In this paper, going to see and discuss about the various algorithms and techniques used to compress the hyperspectral images proposed by experts in this field, which may helpful for the future scholars in this area to see a glance around compression techniques applied on hyperspectral images for better performance of the captured data.

Keywords: Hyperspectral images, Hyperspectral sensors, Algorithms, Spectral Resolution, CCSDS-123 Compression Standard, Lossless Compression, lossy compression, compression techniques, Reconstruction and FPGA Board

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243 **Stress detection using machine learning algorithm**

Paper ID V7I3-1690 · Pages 1148-1149 · Machine Learning

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The longer the exposure to stress serious the health issues may occur. Many of those issues are related to the immunity, cardiovascular, endocrine systems, and many more. Once established in the body, these problems require a substantial investment of time, money, and efforts for recovery. With early detection and treatment, however, these health issues may be nipped within the bud, thus improving quality of health and hence life. Stress impairments are one of the common issues among working professionals in the tech or non-tech giants today. With changes in lifestyle, work cultures, and working schedules, there is an increase in the risk of being affected by stress among the employees working in companies. Though many industries provide psychological issues-related schemes and try to ease the workplace environment, the issue is far from control. In this paper, we would like to apply machine learning techniques to analyze stress patterns in adults and to retrieve the factors that strongly determine stress.

Keywords: Stress Detection, Arrhythmia, ECG Derived Respiration (EDR), Machine Learning, MATLAB

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Happy Home’s Application

Paper ID V7I3-1733 · Pages 1150-1151 · Computer Engineering

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Our goal with Happy Home’s Services Application is to be the go-to destination for millions of customers looking to research their home services. We will have a company that will provide home services. we will provide a certified services person. We will be providing experienced people. We help customers hire trusted professionals for all their service needs. We are staffed with young, passionate people working tirelessly to make a difference in the lives of people by catering to their service needs at their doorsteps. We provide housekeeping services which consist of Plumbers, Electricians, Carpenters, Cleaning and Pest Control. We also provide personal services like beauty, spa, mobile, and other appliance repairs, etc. Be it getting a plumbing job done, improving your fitness through yoga, learning to play the guitar, decorating your home, or getting candid photos of your wedding clicked, we are a sure-shot destination for your service needs.

Keywords: Java, Firebase, Android Studio

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Sarcasm Detection in English and Hindi Sentences

Paper ID V7I3-1753 · Pages 1152-1157 · Aritificial Intelligence

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In the growing advancement of Natural Language Processing, sarcasm detection, a part of sentiment analysis is still a challenge. It is important to detect sarcasm in the statement, especially in open platforms where people are free to express themselves, to identify the correct intended meaning of the statement mentioned. Sarcasm is an important processing problem in the NLP field of sentiment analysis, as it serves as an interface between communicating humans and machines, also such sentences can change the polarity of a sentence, which might result in wrong sentiment analysis. Here, in this project, we going to work upon sarcasm detection in news headlines, which we can get online or in news articles. We made use of LSTM[1][4], an artificial recurrent neural network architecture used in the field of deep learning[8], built around our collected dataset. The model is trained over the pre-processed dataset, cleaned with the help of the nltk library enabling it to create word embeddings, remove stopwords, etc.

Keywords: Sarcasm detection, Sentiment analysis, NLP, Neural networks, RNN, LSTM

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246 **Green Computing**

Paper ID V7I3-1691 · Pages 1158-1160 · Master Of Computer Application

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Green Computing is the process of producing certain parts such as monitors, storage devices, computers keeping the environment in mind. Green computing also known as Green Technology aims to reduce the use of materials that are hazardous to the surroundings or environment. The amount of energy that is consumed in today's world is huge, and hence to reduce the amount of energy consumed Green Computing is implemented to design and build energy-efficient materials. . Green Computing came into the picture in 1992 when it was encouraged by the Environmental Protection Agency (EPA) as it launched Energy Star Program. Ultimately this technology is going be the savior of we humans in the coming future

Keywords: Green Computing, Recycling, Energy, Eco-Friendly, Reuse

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247 **Scraping of Job Portal**

Paper ID V7I3-1748 · Pages 1161-1163 · Computer Science

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"Scraping of Job Portal" is an online Job Searching Web application, a web application through which job seekers can register and apply for jobs. A job seeker must find jobs through advertisements, college fairs, job fairs etc., and the employers must put in much effort to find the right candidate for a vacant position. This application addresses such shortcomings and is a convenient platform for job seekers to find and apply for jobs. Candidates can search for jobs in any field through advanced search techniques. Basically our scraper scraps the data from various job portals and then provides job options to the user or job seeker according to their needs such as location, salary, working time, technical skills etc. They can upload their basic information related to job search which is stored in a database. Candidates can use this portal without any geographical barrier, from any part of the world. Also our portal will notify the registered users through email notifications which consists of basic information about jobs and also the apply link for that job.

Keywords: Web Application, Web Scraping, Job Portal, Apply Link, Email Notifications, Django, Beautiful soup, SMTP, Authentication

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248 Bacteriological analysis of different types of fresh fruit juices from market

Paper ID V7I3-1658 · Pages 1164-1168 · Microbiology

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Bacteriological analysis of samples of fresh orange and pineapple juices collected from different shops confirmed the presence of bacteria. The isolated bacteria were identified as Escherichia coli and Staphylococcus aureus by employing techniques like Microscopy, Culture and Biochemical Reactions. The presence of Staphylococcus aureus and Escherichia coli may be interpreted respectively as contamination of fruit juices by the bacteria present on the skin surface of the juice maker or by the bacteria present on the water used for preparing those fresh juices. It has been proved that Staphylococcus aureus can exist as commensals on skin. Similarly E.coli being a common water contaminant can easily contaminate fresh juice. Hence it is advised to take necessary precautions to avoid bacterial contamination of juices during the preparation of fresh juices without preservatives. This can be achieved by proper hand washing techniques before juice preparation and also by using filtered cold water for juice preparation. In order to suggest a suitable therapeutic regimen in case of infections occurred during the consumption of such contaminated juices, antibiotic susceptibility testing of Escherichia coli and Staphylococcus aureus was done using antibiotics like Amoxicillin, Chloramphenicol, Tetracycline and Streptomycin. From the results obtained it has been assumed that Amoxicillin was more effective against both Staphylococcus aureus and Escherichia coli. The antibacterial effects of Amoxicillin, Chloramphenicol, Tetracycline and Streptomycin against Staphylococcus aureus and Escherichia coli showed the biocide effects of these antibiotics against the Gram positive and Gram negative bacteria.

Keywords: Bacteriological, Juices, Contamination, Preservatives, Antibiotics

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249 Pneumonia: Medical Image Analysis

Paper ID V7I3-1696 · Pages 1169-1171 · Information Technology

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Pneumonia is an infectious and deadly illness in the respiratory tract that is caused by bacteria, fungi, or a virus that infects the human lung air sacs with the load full of fluid or pus. Chest X-rays are the common method used to diagnose pneumonia and it needs a medical expert to evaluate the result of X-ray. The troublesome method of detecting pneumonia causes a life loss due to improper diagnosis and treatment. With the emerging computer technology, development of an automatic system to detect pneumonia and treat the disease is now possible especially if the patient is in a distant area and medical services are limited. This study intends to incorporate deep learning methods to alleviate the problem. Convolutional Neural Network is optimized to perform the complicated task of detecting diseases like pneumonia to assist medical experts in diagnosis and possible treatment of the disease.The result achieved a 93 percent accuracy rate for CNN with Gamma and the

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lowest rate is 79.9 %percent achieved by the CNN model. Convolutional neural network (CNNs) has achieved state-of-the-art performance for automatic medical image segmentation. However, they have not demonstrated sufficiently accurate and robust results for clinical use. In addition, they are limited by the lack of image-specific adaptation and the lack of generalizability to previously unseen object classes. Medical datasets are often highly imbalanced with over representation of common medical problems and a paucity of data from rare conditions. We propose simulation of pathology in images to overcome the above limitations.

Keywords: CNN, medical, Pneumonia

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250 A study on WiTricity (Wireless Electricity Technology)

Paper ID V7I3-1719 · Pages 1172-1175 · Electrical

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Here we are going to discuss on , Wireless Electricity Transmission which is a valuable innovation that can be utilized to gather sun-based energy(solar energy) and focus on the earth surface in the absence of the wire association called a sunlight based force satellites (SPS) Since the remote force transmission consolidates numerous hypotheses and clarified by numerous techniques, here we are discussing about the various strategies utilized for the remote power. This connector is associated with a waveguide ferrite circulator which shields the microwave source from the reflected force. In their benefits, drawbacks and conservative thought will likewise be introduced.

Keywords: Electromagnetic field, Remote Electricity, Witricity

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251 Enriching Indoor and outdoor Fire Detection through CNN

Paper ID V7I3-1752 · Pages 1176-1180 · Cnn

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Fire is a highly useful as well as a dangerous resource that has been utilized by humans since centuries. The only type of fire that is highly useful is the type of fire that is controlled and the energy generated can be used for different purposes. But not all fires are like that and some fires can be extremely devastating. These fires can become large and take down acres and acres of forests leading to extreme death and destruction. There have been recent and highly devastating fires that have rocked major rainforests and decimated a lot of wildlife close to extinction and endangerment. These fires can be stopped if detected when they are in their starting stages and lead to effective reduction in the destruction. There are several techniques such as sensors and other equipment that have been useful in the detection of the fire, but they have not been highly effective and

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efficient in the deployment. Therefore, an image processing based approach is defined in this research article to achieve effective realization of the fire detection. The proposed approach utilizes Convolutional Neural Networks along with Decision Tree to achieve the effective Fire detection. The experimental results confirm the accurate deployment of the fire detection mechanism.

Keywords: Video surveillance, fire detection, Convolutional Neural Networks, Decision Tree.

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252 ERP system for large scale business vs small & mid-scale business

Paper ID V7I3-1761 · Pages 1181-1183 · All Scale Organizatins

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Enterprise resource planning (ERP) System is being used for the last 15 to 20 years and This research paper attempts to identify and explore the main issues affecting large scale businesses as well as small and medium scale businesses regarding the implementation of ERP System in enterprises. In this paper manufacturing companies are ranging in size from million dollars to over billion dollars as per their annual turnover. Basically, this research paper highlights the main issues where the different methods or solutions are to be applied according to the organization's scale. Except this also the benefits get differed by company size as small and medium companies gets some limitations compared with large companies. Large companies get financial improvement and economically better results whereas these smaller and mid-size organizations get better results in Production as well Logistics and manufacturing sectors.

Keywords: Implementation, Enterprise Resource Planning, Small & Mid-Size Enterprises, Organizational Size, Large Scale Enterprise, Comparison Techniques.

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253 Self-wound analysis using Machine Learning and Image Processing

Paper ID V7I3-1767 · Pages 1184-1186 · Computer Science Engineering

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The significance of powerful surgical wound care can never be underestimated. Poorly managing surgical wounds may reason many critical complications. As a result, it increases. The necessity to broaden a patient-friendly self-care device which can assist both sufferers and clinical specialists to ensure the Nation of the surgical wounds without any unique medical equipment. On this paper, a surgical wound evaluation gadget for Self-care is proposed. The proposed machine is designed to allow patients seize surgical wound pictures of themselves with the aid of the usage of a cellular tool and add these pix for evaluation. Combining Image-processing and gadget-gaining knowledge of strategies, the proposed approach consists of four levels. First, photos are segmented into superpixels wherein each superpixel carries the pixels within the comparable shade distribution. 2nd, these superpixels corresponding to the pores and skin are recognized and the area of related skin Superpixels is derived. 1/3, surgical wounds can be extracted from this place primarily based on the

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statement of the texture distinction between skin and wounds. Ultimately, country and signs and symptoms of surgical Wound may be assessed. Full-size experimental effects are Conducted. With the proposed method, greater than 90% of country evaluation consequences are correct, and greater than ninety one% of symptom evaluation results consistent with the real analysis. Furthermore, case studies are furnished to show the benefit and trouble of this machine. Those results display that this device should perform

Keywords: Artificial Intelligence (AI), Classification, Health Care Service Systems

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254 Design of a Micro-controller based programmable voltage source for process automation

Paper ID V7I3-1774 · Pages 1187-1193 · Electronics And Communication Engineering

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Sindhu Rajendran, Assistant Professor, RV College of Engineering, Bengaluru, Karnataka

Automated control of processes are emerging in all spheres as it saves time and energy by providing a significant improvement in productivity and accuracy when compared to the manual methods of controlling processes which require constant human intervention. This paper presents a design of a voltage source that can be programmed using a micro-controller board to control the voltage that needs to be generated. The design is achieved by interfacing the electronic components required along with necessary software tools as a part of an embedded system consisting of the input/output peripherals and a microcontroller. There are two approaches of design, the first approach is based on a Digital to Analog converter and an Operational amplifier, the second approach is based on a MOSFET driver circuit. The circuits are constructed based on the design methodology which is developed with all the components chosen according to desired requirements. The circuits are simulated in Proteus in order to evaluate their performance and the readings are tabulated. The accuracy of both the approaches are computed and it is found that both the approaches have high levels of accuracy.

Keywords: Arduino Microcontroller, Digital to Analog converter (DAC), Duty cycle, Inter Integrated Circuit (I2C) protocol, MOSFET, Programmable Voltage Source, Pulse Width Modulation (PWM

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255 RICA: Real-Time Image Captioning Application

Paper ID V7I3-1729 · Pages 1194-1196 · Information Technology

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Automatically describing the content of an image is a fundamental problem in artificial intelligence that connects computer vision and natural language processing. Image caption generator is a task that involves computer vision and natural language processing concepts to recognize the context of an image and describe

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them in a natural language like English. The recent advances in Deep Learning-based Machine Translation and Computer Vision have led to excellent Image Captioning models using advanced techniques like Deep Reinforcement Learning. While these models are very accurate, these often rely on the use of expensive computation hardware making it difficult to apply these models in real-time scenarios, where their actual applications can be realized. In this paper, we carefully follow some of the core concepts of Image Captioning and its common approaches and present our simplistic encoder and decoder-based implementation with significant modifications and optimizations which enable us to run these models on low-end hardware of hand-held devices. We also compare our results evaluated using various metrics with state-of-the-art models and analyze why and where our model trained on the MSCOCO dataset lacks due to the trade-off between computation speed and quality. Using the state-of-the-art TensorFlow framework by Google, we also implement a first-of-its-kind Android application to demonstrate the real-time applicability and optimizations of our approach.

Keywords: Real-Time, Captioning, Image, CNN, Tensorflow

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Work Efficiency Prediction Analysis and Optimal Path Finding Algorithm

Paper ID V7I3-1766 · Pages 1197-1201 · Machine Learning

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A correct prediction of a contractor's work can lead to many important things like keeping corruption in check, determining whether that particular is fit for the job or not. Frequently, it is brought that prediction is chaotic rather than random, which means it can be predicted by carefully analysing the history of respective contractor. Machine learning is an efficient way to represent such processes. It predicts a value close to the tangible value, thereby increasing the accuracy. The vital part of machine learning is the dataset used. The dataset should be as concrete as possible because a little change in the data can perpetuate massive changes in the outcome. It consists of variables like name of contactors, previous projects that he worked on, budget of that project, estimated lifespan of the project and actual life of the project. Due to the serious problem of bad road construction and maintenance, the real-time road situation and the possibility of road conditions in the next time period should be taken into accounts through the vehicle navigation system, in order to provide the optimal routing plans for vehicles in routing optimization. To solve the ignoring of real-time travel information and historical travel information in the existing navigation systems during routing optimization, this paper compares the existing navigation system to a prototype system which considers the conditions of the roadways as one of the factor in the recommendation and optimization system of the path finding and navigation process.

Keywords: Road Resistance Prediction; Real-Time Navigation; Historical Travel Information

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257 Improvement of Rigid Pavement with Geogrid Material

Paper ID V7I3-1777 · Pages 1202-1205 · Civil Engineering

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We have seen the non uniformity, non consistency, loose soil, unstable soil while construction of roads. We have experimentally examined that geogrid can be added as an additional reinforcement. The benefit of Geogrid is that the geogrid increases the bearing ability of construction and reduces the spreading of gravels and soil. The Geogrid is also economical so the cost of construction can be reduced. Geogrid gives strength to the construction and increases life span of construction. Geogrid reinforcement is a method used in permanent paved roadways in two major application areas. They are: base reinforcement and subgrade stabilization. The strength and life of pavement is greatly affecting the type of sub- grade, sub base and base course materials. But in India most of the flexible pavements are mainly constructed over weak and problematic sub-grade. In base reinforcement, the geogrids are placed at the bottom of unbound layers of a flexible pavement system and improve the load-carrying capacity of the pavement under repeated traffic. In subgrade stabilization applications, the geogrid is used to build construction platform over weak subgrade to carry equipment and facilitate the construction of the pavement system without over deformations of the subgrade.

Keywords: Non-uniformity, consistency, Loose soil, Stabilization, Subgrade, Sub base, Deformation.

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258 A study on network intrusion detection system

Paper ID V7I3-1760 · Pages 1206-1212 · Machine Learning

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In this study, we have tried to survey the methods to detect network intrusions. The Intrusion detection system is important in computer networks for protecting the data. There are several algorithms using neural networks, deep learning, and machine learning to detect intrusion detection in the system. There are many methods for detecting intrusions by ensemble methods, classifiers, anomaly detection giving accuracy according to the methods. The goal of the study is to give a comparison of the methods for an accuracy rate of low rate false alarm and high detection rate. Also, the data sets used in the methods.

Keywords: Network Intrusion Detection System, Machine Learning Ensemble Method, Dataset, Classifiers

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259 SQL injection and XSS

Paper ID V7I3-1768 · Pages 1213-1218 · Sql

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SQL Injection is a vulnerability that influences the Structured Query Language (SQL) [1] queries that an application passes to a back-end database. By exploiting what is given to the database, the attacker can leverage the syntax and capabilities of SQL itself and the power and flexibility of supporting database functionality and operating system functionality available to the database. Cross-Site Scripting (XSS) is a Code Injection attack executed on the client-side of an internet Application. The foremost common method of stealing cookies or hijacking sessions is to introduce JavaScript with a browser-supported html cryptography technique. [2] Cross-site scripting vulnerabilities ordinarily enable AN aggressor to masquerade as a victim user, to hold out any actions that the user is ready to perform, and to access any of the user's knowledge. If the victim user has privileged access at intervals the applying, then the aggressor could be able to gain the full management over all the application's practicality and knowledge. [3] The CWE/SANS Top 25 software errors place SQL injection and Cross-Site Scripting at the very top. Additionally, the Open Web Application Security Project (OWASP) lists Injection Flaws (SQL injection) as the most severe security vulnerability affecting Web applications in its Top 10 list. This highlights how common and very relevant in the domain of Web security. As developers, we should be aware of the consequences and prevention measures of these attacks. This report mentions a brief survey on the real-world attacks of SQL Injection and cross-site Scripting. Additionally, the paper highlights some defenses one can use to mitigate these attacks. Index Terms—SQL Injection, Cross-Site Scripting, Defenses

Keywords: XSS, SQL

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260 Financialization of housing

Paper ID V7I3-1769 · Pages 1219-1219 · Finance

Keshav Bajaj, Student, Independent Researcher

Essay supporting the United Nations Human Rights Council's 2017 report on the financialization of housing

Keywords: Indispensable Asset, Behavioral Economy, Logical Fallacy, Paramountcy

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261 D Flip Flop circuits: Review of different architectures

Paper ID V7I3-1781 · Pages 1220-1223 · Electronics And Communication

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A detailed architectural study of different types of flip flop designs is presented. This includes the conventional transmission gate flip flop topology (TGFF), Sense amplifier-based flip flop architecture (SAFF), Clock pulse-

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based Flip Flop design, and the Dynamic Flip Flop architecture. The fundamental working principles of each topology are discussed along with the operation principles. Important comparisons are made between the architectures and are also presented as a part of this work.

Keywords: Setup time, Clock-to-Q delay

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262 Social distancing indicator and alarming system

Paper ID V7I3-1716 · Pages 1224-1227 · Computer Engineering

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One way of limiting the spread of an infectious disease, for instance, Covid-19, is to practice social distancing. This is not a new concept, as most societies have been aware of the value of keeping away from people who are suffering from an infection for many generations. The objective is to reduce transmission, delaying the epidemic peak, reducing the size of the epidemic peak, and spreading cases over a longer time to relieve pressure on the healthcare system

Keywords: Social Distancing, COVID-19, People Detection, Python, Sensor, WHO

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263 Seismic Response of Irregular Structures

Paper ID V7I3-1765 · Pages 1228-1235 · Civil Engineering (structural Engineering)

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The main objective of earthquake engineering is to analyze, design and build a structure in such a way that the damage to the structure and its structural component during an earthquake is minimized. A large number of papers have focused to study the effect of irregular structures. Being inspired from the work contributed in the study on effect of earthquake on irregular shaped building this research work presents effect of plan and shape configuration on irregular shaped structures. Building with irregular geometry responds differently against seismic action. Plan geometry is the parameter which decides its performance against different loading conditions. This research work aims to evaluate the behaviour of irregularity (plan and shape) on structure under seismic effect. To workout the performance of structure, equivalent static analysis and response spectrum analysis has been adopted. For achieving this objective by using structural based software ETABS 19. Estimation of response such as: lateral displacement, storey drift, and base shear are carried out. Based on these parameters we have compared response of each model. Results are expressed in form of graphs and bar charts. From research it is observed that to minimize the effect of earthquake simple plan and configuration like regular shape must be adopted at the planning stage.

Keywords: ETABS, Irregular plan, Irregular shape, Equivalent static analysis, Response spectrum analysis, Lateral

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displacement, Storey drift and Base shear

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264 Impact of upliftment of the ban on cryptocurrency in India

Paper ID V7I3-1770 · Pages 1236-1239 · Math And Economics

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Money is something that has great value in the life of any human being on this planet and its history dates back to the ancient times when gold, silver, and other metal coins were used for buying goods and other essential items. Cryptocurrency is a digital currency that is created for the purpose of transactions like a normal currency. It uses Cryptography and Blockchain technology to secure its exchanges and limit the production of a particular type of cryptocurrency and keep track of each and every transaction in the network.

Keywords: Cryptocurrency, Primary Data, Secondary Data, Upliftment of The Ban, Analysis, Sampling

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265 Analysis of the effects of temperature and RC pairs on Li-ion battery models

Paper ID V7I3-1782 · Pages 1240-1245 · Power Management For Electric Vehicles

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Electric Vehicles have become the need of time to reduce the pollution from the transportation sector. Not only they reduce pollution but they are also excellent products of renewable energy. Two of the most eminent parts of any electrical vehicle are the Battery and Battery management systems(BMS). Modeling and testing of the systems using simulation is an effective method alternate to hardware testing since it reduces the cost and increases the efficiency of testing. The hardware testing of the battery also affects the safety of the system and any errors may lead to permanent damage to the components and sometimes affecting the people operating them. To model and simulate any component it is necessary to analyze the effects of the parameters which influence it. In this paper, the effect of temperature and the number of RC pairs taken to model the equivalent circuit of the battery is considered as the key factors. The results are used for the analysis of their effects in real-time using the simulation models.

Keywords: Battery Management Systems, C-Rating, Equivalent Circuit, Open Circuit Voltage, Parameter Estimation, State of Charge

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266 OTT and growth of India’s OTT Platform

Paper ID V7I3-1784 · Pages 1246-1250 · Computer And Science

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Over - the -Top (OTT) video streaming platforms, are growing as one of the most popular entertainment

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providing sectors and it is also considered as necessary commodity to have. In India, there is an growth in number of users using OTT. While Indian OTT platforms like Voot, Hostar and ZEE5 has earned stronger customer base, global OTT platforms like Netflix and Amazon Prime have started growing their market share in India[2]. This paper is to understand the OTT workflow various OTT services, growth factors, technology background, audience distribution, content, censorship. to study the government rules and regulations on OTT and also how OOT's are getting popular day by day in India and the reason behind it

Keywords: OOT Growth, Types of OTT, censorship, competition, Telecommunications, rules and regulations, content consuming

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267 Mini CNC Plotter machine using Arduino

Paper ID V7I3-1789 · Pages 1251-1253 · Engineering

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CNC Machines are Computerized Numerical Control Machines that are used to draw anything or design any mechanical part according to the design program fed into their controller unit. The controller unit can be either computer or microcontroller. CNC machines have stepper and servo motors to draw the design as per the fed program. After researching on CNC machines, we decided to build my own CNC machine using locally available materials. There are so many CNC machines in the world, some of which are much technical and complex to make or even operate properly. For this reason, I decided to make a simple CNC Plotter Machine based on Arduino which is by far the simplest to make. You can also use this as an Arduino CNC drawing machine with little modifications. This Arduino CNC Machine can draw most of the basic shapes, texts, and even cartoons. Its operation is similar to the way a human hand writes. It's faster and more accurate compared to the way a human being can write or draw

Keywords: Scrap DVD Drive, Arduino, Servo & Stepper Motors, Mini CNC machine, Plotter, Drawing

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268 Voice Assistant: A revolution in technology

Paper ID V7I3-1790 · Pages 1254-1257 · Computer Science

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A virtual assistant is basically a software agent that can perform tasks or services for an individual based on commands or questions. Traditionally if you have to get some information over the internet you would need a desktop/laptop/mobile device of some sort with an internet connection, manually go to the WEB portal and search for what you need to get a result which is a little time-consuming. Voice-based internet access uses

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rapidly advancing speech recognition technology to give users any time, anywhere communication and access to the web through the Human Voice over a mobile or home phone. The objective of this research paper is to describe the various technical factors that are making voice assistants the next big opportunity to the various approaches service providers and developers of voice portal solutions can follow to maximize this exciting technology.

Keywords: Virtual Assistant, Voice Recognition Technology, Alexa, Siri, IoT

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269 Authentication Protocol for Anti Counterfeiting System using NFC

Paper ID V7I3-1793 · Pages 1258-1260 · Internet Of Things

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Counterfeit medicines are defined by World Health Organization (WHO) as those that are fraudulently and deliberately unlabelled with identity. Various products that are counterfeited, cause problems to various manufacturing companies such as automotive parts, jewelry, cosmetics, software food and beverage, etc. Pharmaceutical products have serious threats from it. Counterfeit medicines do not offer any countermeasure to diseases, that is why the people, who use these medicines, suffer a lot. This problem poses a threat to lawful manufacturing companies since it results in revenue loss.

Keywords: Counterfeit Medicines, Pharmaceuticals, Admin

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270 Prediction and Categorization of Heart Arrhythmia

Paper ID V7I3-1632 · Pages 1261-1263 · Machine Learning

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Dr. S. N. Prasad, Professor, REVA University, Bengaluru, Karnataka

Heart arrhythmia is a state of the heart in which the heartbeat is unbalanced which can be too fast, too slow, or unstable. Electrocardiography (ECG) is used for the recognition of Heart arrhythmia. It registers the electrical activities of the heart of a patient for a period with electrodes attached to the skin. Due to the ECG signals that reflect the physiological conditions of the heart, medical specialists tend to utilize ECG signals to detect and analyze heart arrhythmia. The most important skill of medical doctors is being able to identify the dangerous types of heart arrhythmia from ECG signals. In spite of this, interpretation of the ECG waveforms performed by professional medical doctors manually is proven to be monotonous and time-consuming. As an end result, it was found that the development of automatic systems for identifying abnormal conditions from diurnal recorded ECG data is of primary importance. In addition to that, suitable timely medical treatment measures can be effectively applied when such irregular heart conditions can be identified instantly using health monitoring equipment and tools which internally use machine learning algorithms. Therefore, an important role in this regard would be machine learning.

Keywords: Cardiac Autonomic Nervous System, Cardiac Arrhythmias, Atrial Fibrillation, Ventricular Tachyarrhythmia,

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Denervation, Nerve Stimulation, Neuromodulator

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271 **Fake news detection using NLP**

Paper ID V7I3-1746 · Pages 1264-1267 · Data Science

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All Counterfeit news is the purposeful spread of deception or promulgation by conventional news media and through online media. Such news stories can come in numerous structures, including accidental mistakes submitted by news aggregators, inside and out bogus stories, or the tales which are created to deceive and impact per user's assessment. Using NLP and machine learning to predict fake news can help resolve the spread of such news.

Keywords: Fake News, Natural Language Processing, Machine Learning, Text Preprocessing

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272 **Hand Gesture using Arduino**

Paper ID V7I3-1794 · Pages 1268-1270 · Computer Engineering

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The modern world is filled with new things and technology. As we can see in present time most of the things are becoming gesture control. Gesture based interaction is becoming a necessity at home, office, gardens etc. This build will detect hand gesture from the motion sensor connected to Arduino. The hand gesture will work as an input which will act with PC or laptop. One of the key area of implementation of code using Python. We feel that we can help a little with our little contribution

Keywords: Hand Gesture, Arduino UNO, Hand Gesture, Sensors, Ultrasonic Senor, Multimedia Player Control

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273 **Helicopter Parenting and Psychological Well-being among Indian and United States Adolescents**

Paper ID V7I3-1797 · Pages 1271-1275 · Psychology

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Parents play an important role in a child’s life. Parents’ style of raising their children can largely determine a child’s overall development. In addition to the various parenting styles such as authoritarian, authoritative, and

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permissive parenting styles (Baumrind,1966), helicopter parenting has become a common parenting style for raising children. Helicopter parenting is a parenting style that involves parents who are potentially over-involved in their child's lives (Padilla-Walker & Nelson,2012). Parents have high expectations about providing their children the best resources possible to make their life easier and often get over-involved in this process. Parents who adopt this type of parenting style often believe that it can help their children to flourish in life. Psychological well-being describes the important aspects of human functioning ranging from positive relationships to feelings of competence, to having meaning and purpose in life (Diener et al., 2010). This research aims to study the relationship between helicopter parenting and psychological well-being among Indian and United States of America (USA) adolescents. A sample of Indian and US adolescents (n=60) ranging from 16-21 years were chosen for this study. The adolescent's perception of their parent's helicopter parenting behaviour was measured using Helicopter Parenting Instrument and the adolescent's psychological well-being was measured using the Flourishing Scale. The study results indicated no significant relationship between perceived helicopter parenting and psychological well-being among Indian and US adolescents.

Keywords: Adolescents, Helicopter parenting, psychological well-being,

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Simulation of Message Queuing Telemetry Protocol in IoT Environment

Paper ID V7I3-1801 · Pages 1276-1280 · Information Science And Engineering

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IoT has recently emerged as the most popular Internet advancement and has become a trending technology that incorporates M2M communication. Device-to-device communications in IoT are handled via the Pushing or Polling protocols. There are numerous protocols available for IoT, including AMQP, MQTT, and XMPP, with MQTT being the most widely used. MQTT's main advantage is its lightweight and high bandwidth efficiency. This paper mainly simulates MQTT and describes the importance of MQTT in IoT, and the terminologies related to it. Finally, we analyzed the performance of MQTT in terms of data transmission rate.

Keywords: MQTT, Broker, Client, Publisher, Subscriber, TCP, Internet of Things (IoT)

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Static Structural Analysis of SAE Baja Chassis

Paper ID V7I3-1775 · Pages 1281-1285 · Fea Of Baja Vehicle Chassis

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The roll cage of Baja vehicle can be of various types, comprising a tubular structure of various dimensions, but all complying with the official rulebook issued by Baja SAE India. Since the vehicle is expected to perform in off-road conditions, various static and dynamic forces are applied on the chassis, and during these off-road conditions, the main motive of roll cage is to ensure total safety of the driver and to assemble and mount other

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vehicle components. The chassis of the vehicle is first designed in Solidworks 2018 and then analysed in ANSYS 2019.

Keywords: Baja Chassis, FEA, Roll Cage, Analysis, ANSYS

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276 Effectiveness of 3% Citric Acid dressing on diabetic wound status among patients with diabetic foot ulcer

Paper ID V7I3-1780 · Pages 1286-1289 · Nursing

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Background of the study: India is the country with the second-largest number of diabetic patients in the world. Research Methodology: Pretest Posttest Control Group Research Design was adopted. Thirty Research participants were recruited using the Simple Random Sampling technique. The wound was assessed using Modified Bates Jensen Wound Assessment Tool. 3% citric acid dressing was applied to the interventional group once a day for 15 days. Results: The study findings stated that the pretest means and standard deviation of an interventional group and routine care group were 41+4.34 and 20.6+4.63. The calculated “t” value (46.31) was greater than the table value (3.66) at the level of p

Keywords: Effectiveness, 3% Citric acid, Diabetic foot ulcer, Diabetic wound status, Diabetes mellitus

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277 Organizational Analysis using Mckinsey’s 7S Model

Paper ID V7I3-1798 · Pages 1290-1294 · Management

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This paper aims to analyze the organizational model of VSK University Ballari of Karanataka state in India using Mckinsey’s 7 S model of organizational effectiveness. The population comprised faculty of VSK University Ballari. Convenient sampling was used to select the sample from the population, and the sample size was determined as per Cohcaran formula, which was 42. Questionnaire was used as data collection instrument. To analyze data T-test was used. The results of the research showed that organizational effectiveness factors of Mckinsey’s 7S Model of VSK University is unaligned. As per the findings, it is recommended to focus alignment of soft elements of the model to realize organizational effectiveness.

Keywords: Organizational Effectiveness, Shared Values, Style, Skills, Staff

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278 Interpretation and co-relation of vapor-liquid equilibrium data in distillation by using salt effect for the propanol-water system

Paper ID V7I3-1813 · Pages 1295-1299 · Chemical Engineering

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Vapor-liquid equilibrium (VLE), is a condition where a liquid and its vapor (gas phase) are in equilibrium with each other or more precisely a state where the rate of evaporation equals the rate of condensation on a molecular level such that there is no overall vapor-liquid interconversion. In this paper, we study the azeotrope breaking of binary 1propanol-water system with a salt-added method to recover the purity of water by using batch distillation and to investigate the concentration of salt added to break the azeotrope of the lprapanol-water system in the batch distillation process. The objective of this paper was to study physical properties with different measurement methods and to supply thermodynamic data for several chemical systems.

Keywords: Distillation, 1Propanol, Binary System, Thermodynamic Modeling

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279 Smart Scan – Text Recognition System

Paper ID V7I3-1814 · Pages 1300-1302 · Computer Science And Engineering

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In today's world, every piece of information is in digital form. Technology has made things much easier. Digitization is the process of transforming information into a digital format. Ancient record, personal documents are scanned to store as images. Such scanned images of documents are modified and characters are recognized for further processing. Documents can contain either typed characters or handwritten characters. Extracting the characters in scanned images of documents helps for easier access to contents that need to be further modified. In this project, the models are built to recognize the printed text as well as handwritten text from images. Optical Character Recognition (OCR) technology can be used for printed text recognition and models using Artificial Neural Networks (ANN) can be created to extract handwritten characters. The mode of storage of the information plays a major role. This system allows the users to store the recognized text in desired formats.

Keywords: Machine Learning, Optical Character Recognition, Neural Networks, Handwritten Text, Python

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280 Should the world run on a cashless economy? : A Review

Paper ID V7I3-1671 · Pages 1303-1306 · Innovations

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In this changing era, the rapid growth in technology has led us towards the digital world. With this digital world due to the constant level of technological infrastructure and policy changes, there has been an increase in the

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number of modes of payment. In this growing era, it is necessary to go along with modern technological methods, one of them is changed in the means of making and receiving payments. The cashless economy seems synonymous to Canada and Sweden as manifested in the study of Forex Bonuses 2017. A cashless economy is an economic system where a small amount of cash is used in transactions. The cashless economy is based on transactions made by credit cards, debit cards, wallets, Or digital modes. A cashless economy is cost-effective, growth-friendly, business-friendly, pro-financial inclusion, etc. It has various challenges-escaping the attitudes of people, poor transactions security mechanism, insufficient infrastructure, etc. It is a boon to industries like UBER and OLA. Pros and Cons about the cashless economy will help us to find whether really the world should run on a cashless economy or not? Covid-19 had a really big impact on the economy, also how it became a pillar for the cashless economic system will help us to better understand the cashless economic system concept. A cashless economic system in this era has its own significant importance. The questionnaire and the hypothesis mentioned in this report will help us to understand the point of view of the people on the cashless economic system. Further analysis will be done on secondary data.

Keywords: Cashless Economy, Digital payment, Cashless Society, GDP of Economy, OLA & UBER Industries

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A review on regulatory affairs

Paper ID V7I3-1823 · Pages 1307-1313 · Pharmaceutics

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Regulatory affairs professional play significant roles in the pharmaceutical industry as it concerns the lifecycle of the healthcare product, it offers operational direction, tactical and strategic, and assistance for working within the regulation to accelerate development as well as distribution of healthcare products safe and efficient to expedite the development role of regulatory affairs, a regulatory strategy is developed and implemented, to guarantee that the collective actions of the team of drug development lead to products which are approved by the Global Regulator but is also differentiated in certain ways from the competition and is also to assure promotion, are carried out in according to the guidelines and regulation founded by a regulatory authority. Regulatory affairs (RA) are an interesting career option for science graduate students who enjoy communication and teamwork, comfort with multi-task, and want to develop their knowledge in the broader area of the pharmaceutical sector. RA is a rewarding, intellectually stimulating, as well as highly respected profession in a pharmaceutical company.

Keywords: Worldwide Regulatory Agencies, Regulatory Affairs Professionals, Regulatory Bodies, Regulatory Affairs, Pharmaceutical Industries, FDA, Ethical Considerations

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282 Design and Develop ERP System for S.M.A.R.T. Hub using Angular PWA

Paper ID V7I3-1822 · Pages 1314-1317 · It

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ebsite means customers are always able to find you – anytime, anywhere. Even outside of business hours, your website continues to find and secure new customers.Web Application which integrates the website as well as the ERP system for both the User and Administrator which includes User Friendly Design and Implementation of the system which is Easy to Manage, Maintain database with the help of Query Optimization and is Available on Multiple platforms.

Keywords: PWA, FireBase, Angular JS, JS, Server Handling

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283 Li-Fi Technology

Paper ID V7I3-1820 · Pages 1318-1320 · Information Technology

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We all have been using Wifi technology extensively for data in our day to day life, this paper presents how Li-fi technology will enhance user experience with its capability of providing a secure and as well as higher data access rate. A Lifi is a wireless technology and its a type of Visible Light Communication (VLC) which makes use of LED lights for data transmission

Keywords: Visible Light Communication, Lifi, Harald Haas, LED

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284 Sentiment Analysis of Tweets using Machine Learning

Paper ID V7I3-1818 · Pages 1321-1324 · Computer Science

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The growth of various social networking sites has enabled people to express their opinions, thoughts, and feelings. Social networking platforms such as Twitter, Facebook, etc. are filled with opinions and thoughts. The enormous data gathered using these platforms can help to analyze the sentiment of people. Sentiment analysis is the method to interpret and classify emotions into categories viz positive, and negative.. Data mining is harnessed to uncover relevant information from web pages. The main emphasis of this research is to classify which machine learning algorithm gives better accuracy. Python language is used to implement the proposed system. Machine learning classifiers such as Naïve Bayes, SVM, and Decision Tree are applied to categorize the tweets as positive or negative.

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Keywords: Twitter, sentiment analysis, machine learning, Naïve Bayes, SVM, Decision Tree

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Smart IoT based chicks brooding system

Paper ID V7I3-1755 · Pages 1325-1327 · Electrical Engineering

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Brooding is the most critical period in the life of a chicken. During brooding period, day old broiler chicks do not have the capability to warm themselves, and if not properly monitored chicks would die because of the change in weather. This would mean a big loss to the poultry farmer or owner. So to be able to address this issue, this study aimed to explore smart sensing during brooding period. This process could help monitor the temperature and humidity of the chicken coop easily during brooding period and notify the farmer immediately. The researcher developed a prototype using DHT22 sensor with Arduino Microcontroller and GSM Module. The prototype was tested and evaluated in terms of reliability. The Brooding is the most crucial period in the life of a broiler chicken. This period is when the systems are still in the development stage and the immune system is still delicate and cannot fight diseases. The feathers are not yet fully grown and the chicks are still learning to eat and drink. Since day old chicks do not still have the capabilities to keep their body warm. They are very in danger to the environmental conditions like temperature and humidity level. It leads to sickness and worst death of if they are exposed to colder temperature.

Keywords: Smart IoT Based Global System, Fully Automated System, Less Electricity Consumption, Less Human Efforts

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Remodeling of Aluva bus terminal

Paper ID V7I3-1807 · Pages 1328-1334 · Structural Engineering

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The study consists of two parts. The first part was devoted to the preparation of a new plan for the Aluva bus terminal and the second part consists of 3D modeling of the building. The proposed site is at Aluva. It consistsof G+ 3 story building. The typical plan of the building is given below. The building is planned according to the requirements of the users by conducting a questionnaire survey. Visits to various construction sites were conducted. These site visits helped me to be aware of the latest construction methods that are adopted and being practiced in the construction industry.

Keywords: 3D Modeling, Revit Drawing, Autocad Drawing, Sectional View, Perspective View

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287 Artificial intelligence in today’s challenging world

Paper ID V7I3-1809 · Pages 1335-1337 · Computer Science

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Artificial Intelligence refers to any machine that shows features similar to the human mind just like learning and problem-solving. AI can take actions that have the best chance of solving specific issues in an efficient way. Machine learning is a subset of Artificial Intelligence and refers to the idea of automatically learn and adapt new facts without getting any help from humans. Artificial Intelligence is developing day by day and performing Multitasking and making human work easy and helping humanity in a fast and efficient way and gives better solution for complex problems. This paper will describe how AI is helping today’s world and also see what problem is also creating by AI in today’s world. This paper also describes the AI technologies uses in different areas in today's world. We also discuss how AI is useful in many fields but also damaging our environment and the damage is hard to fix and we also get the humans are the main problem. We have to change ourselves to fix a problem.

Keywords: Artificial Intelligence, Machine Learning, Humans, Database, Expert System

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288 Agriculture field monitoring and analysis using Wireless Sensor Networks

Paper ID V7I3-1833 · Pages 1338-1343 · Internet Of Things

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India is largely an agricultural country. Agriculture is the most pivotal occupation for most Indian families. It plays a vital role in the development of India. In India, agricultural income contributes about 16% of total GDP and 10% of total exports. Water is the central resource for Agriculture. Irrigation is one method to supply water, but there will be a lot of water wastage in some cases. IoT technology can help in collecting information about conditions like moisture, temperature, and humidity. Wireless sensor networks are used to monitor the farm conditions and micro-controllers to control and automate the farm processes. DHT-22 sensor is used to measure the temperature and humidity in the field, and a resistive soil moisture sensor module is used to measure the moisture content of the soil. All the sensor relays are interfaced with the ESP32 controller. The

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sensors collect data from the field and transmit the data to the micro-controller. All the sensor devices are connected to the internet through the ESP module. After successful completion of sense, the data will be processed and stored in serve for future reference. After completing the analysis of the data, the threshold values will be set for controlling purposes. In this implementation, the threshold value is set for the soil moisture value. When the threshold value is met, the solenoid valve is turned on to irrigate the field. The end-user can also turn on the solenoid valve by using the Blynk application.

Keywords: IoT, Smart Agriculture, Cloud

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Research paper on Eating Disorder – Bulimia and Anorexia Nervosa

Paper ID V7I3-1842 · Pages 1344-1347 · Medical

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Learning about eating disorder may very sensitive have to focus on psychology of human being about there thought process. It classified based on “feeding and eating disorder” in the Diagnostic and Statistical Manual of Mental Disorder(DSM-5), it represent the mental health of person. Anorexia Nervosa and Bulimia Nervosa these are two sort of eating disorders. They may found in 9% to 10% in adult women and 10% to 15% in Men suffer from compulsive-type eating problem.

Keywords: Disorder, Anorexia, Psychological, Overeating, Mental Health

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Power generation from exhaust gases of bike

Paper ID V7I3-1843 · Pages 1348-1350 · Automobile Engineering

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Regarding the age of power from motorcycles, this paper manages the use of exhaust gas. In recent times in the automobile world, numerous and astounding ideas are made and even the previous concepts are being improved to meet and conquer the new age difficulties. Now, the electrical aspect has come into the picture and supporting the automobile sector. With the help of waste gases emitted by the vehicle silencer which are normally released into the environment using a straightforward system like DC generator and silencer; Electrical force is produced through this is the crucial change made.

Keywords: Exhaust Gas, Silencer Turbine, Dynamo

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291 Reliable selection of hot-swap FETs

Paper ID V7I3-1850 · Pages 1351-1354 · Electronics And Communication Engineering

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Hot Swapping causes a sudden change in the loading conditions of the system which in turn affects the current drawn. Hot-Swap circuits which are used to protect the end equipment employ an external FET which must survive the sudden stress generated from the inrush current. The selection of MOSFET for a hot-swap application is a highly iterative and time-consuming process. This report gives an overview of the concepts and calculations that need to be considered to decide the right MOSFET for the application.

Keywords: MOSFET, SOA Margin, Hot Swap, Start-up, Inrush Current

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292 ISO 22000: 2018 Implementation (FSMS)

Paper ID V7I3-1851 · Pages 1355-1361 · Quality Control And Assurance

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The ISO 22000/FSMS is the most advanced universal management system for food safety. Implementing this standard will help any organization to achieve top-notch safety and will be able to eliminate all hazards way before creating any kind of waste, accidents, or any customer complaints. This paper indicates the initial documentation and implementation of the FSMS standard in the plastic molding industry.

Keywords: FSMS- Food safety management system

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293 Offline lectures are effective tools to improve concentration

Paper ID V7I3-1857 · Pages 1362-1364 · Innovations

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Educational institutions (schools, colleges, and universities) in India are currently based only on traditional methods of learning, that is, they follow the traditional set-up of face-to-face lectures in a classroom. Although many academic units have also started blended learning, still a lot of them are stuck with old procedures. The sudden outbreak of a deadly disease called COVID-19 caused by a coronavirus (SARS-COV-2) shook the entire world. The World Health Organization announced its pandemic. This pandemic of COVID-19 is observed in every sector around the world. This virus spread very quickly, so WHO said to take 2 feet distance & there is a need of lockdown because of this all world is locked. This pandemic situation very badly affected every sector, and it's very badly affected a student's life. Crossing this situation challenges the education system. The world and teachers were forced to move to an online method of teaching overnight. Many academic institutions that previously avoided changing their traditional educational attitudes do not have them. Options without a

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complete shift to online teaching and learning. Online teaching is more readily accepted. This research is highlighting the impact of COVID-19 in education and the effectiveness of offline lectures and online lectures. This study is received from 10th standard student to Ph.D. student response to an online class and investigate student's perception of the effectiveness and concentration between online class and offline class. The method uses data analysis foreign from the questionnaires using qualitative and quantitative approaches to provide data for content analysis to find student opinion.

Keywords: Covid-19, Offline Class, Online Class

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294 Video anomaly detection

Paper ID V7I3-1859 · Pages 1365-1367 · Computer Engineering

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Security is always a main concern in every domain, due to a rise in crime rate in crowded events or suspicious lonely areas. Abnormal detection and monitoring have major applications of computer vision to tackle various problems. Due to the growing demand in the protection of safety, security, and personal properties, the needs and deployment of video surveillance systems can catch all the anomaly and anomalies play important role in surveillance detection. Anomaly detection is used to identify the odd pattern or abnormal behaviors in the surrounding. Surveillance videos are able to capture and store a variety of anomalies in the surrounding. People detection and tracking are of important research fields that have gained a lot of attention in the last few years. Most of the time, the timely and accurate detection of video anomalies is the main objective of security applications. The video anomalies such as anomalous activities and anomalous entities are defined as abnormal or irregular events that are different from normal events happening every day. In this paper, we present how surveillance videos are used to detect anomalies.

Keywords: CNN, Spatio-Temporal Autoencoder

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295 Vehicle detection and classification using Deep Neural Networks

Paper ID V7I3-1706 · Pages 1368-1370 · Deep Neural Network

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Insightful transportation frameworks have recognized a proportion of consideration somewhat recently. In this space vehicle arrangement and restriction is the key errand. In this assignment the greatest test is to separate

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the highlights of various vehicles. Further, vehicle grouping and identification is a difficult issue to recognize and find in light of the fact that wide assortment of vehicles doesn't follow the path discipline. In this article, to distinguish and find, we have made a convolution neural organization without any preparation to group and identify objects utilizing a cutting edge Deep neural organization dependent on quick locales. In this work we have considered three kinds of vehicles like transport, vehicle and bicycle for grouping and recognition. Our methodology will utilize the whole picture as information and make a bouncing box with likelihood evaluations of the element classes as yield. The aftereffects of the investigation have shown that the projected framework can significantly improve the exactness of the discovery..

Keywords: Vehicle Detection, DNN, Machine Learning, Neural Networks.

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IoT Based Healthcare System

Paper ID V7I3-1773 · Pages 1371-1374 · Internet Of Things

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Looking at the current pandemic situation in the world, every human being's health has been a major concern. In this scenario, the best option for dealing with an epidemic is an IoT-based health monitoring system. The Internet of Things (IoT) is a recent internet trend that is becoming a popular research topic, especially in health care. The key goal of this project is to keep track of a patient's heart rate, temperature, and oxygen saturation (Spo2) in real-time. Aside from that, the device monitors the patient's positions using tilt, temperature, humidity, and CO2 level in the room. Tilt is a core aspect of our project. The Arduino Nano is wired to all the sensors. The Arduino nano is a microcontroller that manages the system's functions. Arduino uses a Wi-Fi module to send data to an IoT platform through the ThingSpeak wireless network. In this system, Arduino uses a Wi-Fi module to send data to an IoT platform called ThingSpeak. ThingSpeak is used to store, retrieve and visualize our real-time data. So authorized individuals can access the patient's measured data from any location and take appropriate actions if it is required.

Keywords: Internet of things (IoT), Health, Sensors, Microcontroller, ThingSpeak

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297 The design of ultra wide band circular monopole antenna with Quad-Band Notch characteristics

Paper ID V7I3-1620 · Pages 1375-1382 · Antenna And Propagation

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A novel microstrip fed Ultra wide band (UWB) with quad notch characteristics is presented in this paper to avoid the interference of narrow bands. The proposed antenna is having the size of 55x56x1.6 mm ^3 falsified on FR4 epoxy substrate. Based on the methodologies, the first notch is created to attenuate the WiMAX (World Interoperability for Microwave Access) of range 2.94-3.7GHz by using T slot. The two rectangular slots are used to reject the INSAT (Indian National Satellite) band of the range 4.5-4.8GHz and of WLAN (Wireless LAN) band of the range 5.1-5.9GHz. These three notch band characteristics are attained by etching the notches on the radiation patch and the fourth notch is created by etching U shaped slot in the feed which attenuates the ITU (International Telecommunication Union) band of range 7.4-8.7GHz. All the simulations are performed using HFSS software. The simulated antenna yields a good impedance bandwidth of 2-11GHz with Return loss (S11) ≤ -10dB, VSWR< 2 and exhibits good radiation properties except at the notch band ranges. The peak gain of more than 2.2dBi and efficiency of above 90% is obtained from 2-11GHz excluding at the notching narrow bands.The obtained results depicts that the antenna is very well suitable for real time UWB applications.

Keywords: UWB Antenna, Quad Notches, Narrow Band Ranges, Interference, HFSS Software

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298 Efficacy of pilates and MC Kenzie exercises on patients with chronic low back pain – A comparative study

Paper ID V7I3-1804 · Pages 1383-1401 · Medical - Physiotherapy

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The major health issue of human being is lower back pain disease caused by various Lifestyle activities and occupational adaptation. People who continue to in same poster throughout the day like computer professionals and shops may be the major victims of this chronic disease process. Objectives : The study aims to produce the different kinds of Management techniques to deal with chronic low back pain and compared their effects on the pain relieving and core muscle strengthening. Methodology: The study focused on 40 subject into two groups such as group A and group B respectively treated with Pilates and Mc kenzie exercise on management and and core strengthening. The effects of the both types of treatments more assessed by visual analogue scale, back performance scale score and Roland Morris disability questionnaire. Result and Conclusion: As per the various statistical analyses, it was found that both the methods are less effective for relieving pain and group A got effective improvement in core muscle strength. So as this study conclude that the alternative hypothesis has been accepted.

Keywords: Chronic Low Back Pain, back performance scale score, Mc kenzie Exercises, Pilates, Roland Morris disability

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questionnaire , visual analogue scale,

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299 Intelligent assistance and object detection for visually impaired people

Paper ID V7I3-1867 · Pages 1402-1406 · Machine Learning

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This paper is intended to design a smart cane that helps visually-impaired people to walk more confidently. The study hypothesizes that a smart cane that alerts visually-impaired people about obstacles in front. The system is intended to provide artificial vision and object detection, real time assistance via GPS by making use of Raspberry Pi. The system consists of GPS module, and the feedback is received through audio, voice output works through TTS (text to speech). The proposed system detects an object around them and sends feedback in the form of speech and also provides navigation to specific location through GPS. Smart Stick is a device designed to aid the visually impaired person by detecting objects and portray the information to them in the form of speech. This reduces the human effort and gives better understanding of the surrounding. Furthermore it also provides an opportunity for visually impaired people to move from one place to another without being assisted by others. The device can also be used in old age homes where old age people have difficulty in their day to day activities due to decreased vision. The main focus here is to aid people in need to “see” the surroundings. Considering the growth in the field of artificial intelligence and features like object detection is getting easier and computationally feasible, these features are implemented in the proposed system. The main focus is on object detection and classification on pictures which are captured by the device mounted on a stick. This interpreted information can then be relayed to the user in means of sound or speech.

Keywords: Raspberry Pi, GPS Module, Object detection, YOLO, Tensor flow

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300 Performance Measurement of Cost and Schedule Analysis by using Earned Value Management for a Commercial Building in Primavera-P6

Paper ID V7I3-1869 · Pages 1407-1412 · Civil Engineering

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Construction industry is a main part of a nation’s foundation and modern growth. Even construction industry is the second biggest industry in India, the development of this industry has been differential the country over. Project cost and time is the critical factor as its overrun /under run which is directly impact on total project duration and cost. So, main preference wants to give for cost & time. For this, one of the best tools for analysing and measuring the efficiency of construction projects. Earned Value Management (EVM) is best method to tracking the progress in the construction project. Earned Value Management (EVM) is a system to

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extent performance and progress for your project. The basic principle of Earned Value is that the cost is relative to the work. It reflects time and cost factors to evaluate the efficiency and estimate completion time and costs. The main aim of our study is evaluating the cost and schedule for a commercial building by using earned value management. The present study deals with the project tracking process of “Earn Value Management”, a thirteen storeyed (G+12) commercial building whose construction is in progress at Pune. By using this process it can capable to find and control the delays and serious issues regarding time and cost. Primavera p6 is used in this analysis of cost, schedule & tracking of a project. Comparing to manual calculation, Primavera-P6 is an effective way to calculate Earned Value Analysis for the projects. It confirms whether our project is on schedule and on time, on budget.

Keywords: EVM, Cost Performance Index, Schedule Performance Index, Primavera-P6

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301 Rhizobium bio-fertilizer technology increases yield of Groundnut and subsequent crop

Paper ID V7I3-1871 · Pages 1413-1416 · Agriculture

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Agriculture is the only basis for feeding humanity. Adoption of modern agricultural practices and use of technology is inadequate in India. Arachis hypogea L. (Groundnut) belongs to family Fabaceae. It is an annual. The roasted seeds are edible. Oil is extracted from the seeds and used as fine cooking medium. Vegetable ghee (peanut butter) is also prepared from this oil. The oil cake is fed to the livestock. It is rich in fatty acids and proteins. The major constraints of Groundnut production in India are unreliable rain fall pattern, pest and diseases, socio-economic status of farmers, failure of communication media to reach in the area, lack of awareness and traditional mind psychology of farmers about improved agro-practices (Baldeo Sigh 1990). The chemical fertilizers cause impact on soil micro flora and fauna. In such situation it is need of the day to develop new easy low cost eco-friendly Rhizobium bio-fertilizer technology for Groundnut and residual effect of Rhizobium culture on yield of wheat, rice or subsequent crop etc. is always higher (Raverkar, K. P. and Konde, B. K. 1988). Present research work shows application of Rhizobium bio-fertilizer technology for Groundnut seeds and to study the increase in yield of pods during the crop season 2018. It was observed that, the yield increases by 20 to 25 %.

Keywords: Bio-fertilizer, Rhizobium, Groundnut, Constraints

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302 Stabilization of subgrade soil with lime and coir

Paper ID V7I3-1873 · Pages 1417-1420 · Civil Engineering

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The establishment of any nation majorly depends upon transportation, import, and export. One in every of the

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big transport systems that connects all the agricultural and concrete areas is pavement. Rumenerative of road leads to increases country's profitable growth with full load acting upon the road would be evenly distributed between this sub-graded layer, because the clayey loam has a low limit of capacity thus abundant material such as coconut coir and lime can be used to the strength of the subgrade layer. The clayey soil goes through unrestrained volumetric changes making their utilization within the construction engineering science project burdensome. The properties of clay particles will be modified in many ways such as mechanically, chemically as well as thermally. Thus stabilization of soil techniques is necessary in order to gain stability of the soil so that it can easily withstand the loads acting upon the super-structure.

Keywords: Bearing Capacity, Stabilization of Soil, Shear Strength, Coconut Coir, Lime

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303 Comparative study of manual and software-based design of G+1 building

Paper ID V7I3-1849 · Pages 1428-1433 · Civil Engineering

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Today, technology is circulating in almost every field of humans' life, Now this is the time, life will become much more difficult without the use of technology in our lives. So, keeping the involvement of technology in mind, we will try to cover some of the uses of computer technology in different areas of civil engineering. The project deals with different software used in civil engineering like AUTOCAD, STAAD PRO. Which are used for different purposes during the completion of the project. AutoCAD is used for drafting the 2D plan and to do more accurate and fast work. Later the plan can be made in 3D with the help of Autocad so it will give more details about the plan then design and analysis are done with Staad Pro. After that, we can cross-check all the calculations manually so we will know how fast and time saving this software.

Keywords: AUTOCAD, STADD PRO, Manual, Design

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304 Cloud Computing: Its relevance to Libraries

Paper ID V7I3-1835 · Pages 1434-1437 · Cloud Computing

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Cloud computing is the use of software and hardware to deliver on-demand computing services from applications to computer data storage and processing power over a network (typically the Internet), without direct active management by the user. In cloud computing, information technology programs shift from

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products to services. It ensures that a user gets a service that allows him/her to store all his data outside the domain of his/her personal device, i.e., he/she stores his/her files and data on cloud computing servers in the form of files he/she can access from anywhere, where there is an Internet connection. The key feature of cloud computing is that any user can create, edit, and save files in the cloud according to their needs and is, therefore, a kind of self-service like Google Docs. Cloud computing technology contributes to removing the maintenance problems and helps develop information technology programs. Its infrastructure depends on advanced data centers that provide large storage space for users.

Keywords: Cloud Computing, Concept, Meaning, Definitions, Technology, Uses, Functions, Essentiality in Libraries.

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305 Touch less and touchscreen

Paper ID V7I3-1861 · Pages 1438-1440 · Information Technology

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The aim of this research paper is to compare and contrast the methods of touchless and touch screen technology.

Keywords: Technology, Display, Screen, Touch

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306 Asset tracking system

Paper ID V7I3-1860 · Pages 1441-1443 · Electronics And Communication

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Nowadays, the development of technology is fast growing and gives all necessary and efficient solutions for all the problems and the requirements. Security is the key feature in the present society. In this situation here, an IoT Asset tracking system is built and being deployed to grow the safety of women, children with young age and adults, also people with disorders, and any valuable assets through the technology and devices of RF along with IoT. The Radio Frequency module consists of a transmitter and receiver. The transmitter is positioned with the asset to be traced which transmits radio waves to the receiver. If the asset is being traced goes out of the frequency border that is RF module range, an alert SMS and any kind of information data will be sent to particular employees or people through (GSM) Global System for Mobile communication. Also including that the position of the asset can be traced whenever required through Global Positioning System. In addition, by using the Google map API key we can locate the object and for the latitude and longitude values, we can use the Think speak channel id and API key.

Keywords: Arduino, GPS, Asset, Tracking System, RF Transmitter, RF Receiver, Thingspeak, Maps

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307 Cycle time reduction in injection and extrusion blow moulding machine

Paper ID V7I3-1870 · Pages 1444-1447 · Mechanical Engineering

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Reducing cycle time of injection and extrusion blow molding machines can help plastic moulding organization to meet the increasing demand of cutomers, this paper is an attempt towards reducing the machine and process cycle time using different aspects of methodology used and machinery.

Keywords: HDPE- High density polyethylene

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308 5S methodology implementation

Paper ID V7I3-1853 · Pages 1448-1453 · Quality Engineering

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5S is one of the most widely adopted techniques from the lean manufacturing toolbox. It is an environment that has a place for everything and everything in its place. When you need it. 5S gives you a workplace that is clean, uncluttered, safe, and organized. People, processes, and products begin to flow at the drumbeat of the customer.

Keywords: 5S, Workplace, Toolbox

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309 Knowledge and attitude of teachers on the identification of suicidal tendencies among junior college students in selected colleges of Aurangabad city

Paper ID V7I3-1886 · Pages 1454-1459 · Msc Nursing (psychiatric Nursing)

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Background: Suicide is the third leading cause of death among adolescent worldwide. There has been an increase in the rates of suicide in India over the years mostly adolescent, and youth are now the group at highest risk in one-third of the developed and developing countries. Suicide is preventable. Youth who are contemplating suicide frequently give warning signs of their distress. Parents, teachers, and friends are in a key position to pick up on these signs and get help. Most important is to never take these warning signs lightly or promise to keep them secret. Aim: The current study aimed to assess the knowledge and attitude of teachers on identification of suicidal tendencies among junior college students. Methods: A pre-experimental study consisting of 100 samples from Junior College Aurangabad, Maharashtra, India. The questionnaire was used to assess the knowledge and rating scale was used to assess the attitude of samples before and after administration of structured teaching program. Result: The maximum no. of samples knowledge score was

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(59%) in moderate level, the average no. of samples (35%) were in Inadequate and minimum no. of samples (6%) were in Adequate in Pre-test and in Post-test, the maximum no. of samples (53%) were in moderate, average no. of samples (36%) were in Adequate and minimum no. of samples (11%) were in Inadequate. The maximum no. of samples attitude was (78%) having positive attitude and minimum no. of samples (22%) were having negative attitude in pre-test. In post-test, the maximum no. of samples (84%) were having positive attitude and minimum no. of samples (16%) were having negative attitude. Conclusion: The findings of the study concluded that teachers had moderate level of knowledge and positive attitude towards junior college student suicide.

Keywords: Suicidal Tendencies, Teachers, Junior College Students, Junior College

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310 Study on geopolymer concrete with quarry dust

Paper ID V7I3-1868 · Pages 1460-1462 · Civil Engineering

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In order to address environmental effects associated with Portland cement, there is need to develop alternative binders to make concrete. An effort in this regard is the development of Geopolymer concrete, synthesized from the materials of geological origin or by product materials such as fly ash, which are rich in silicon and aluminum. This paper presents results of an experimental study on the compressive strength of Geopolymer concrete. The experiments were conducted on three types of different mixes (M1,M2,M3) containing different amount of sand and Quarry Dust with sunlight curing. The replacement of cement with fly ash is 100%with 10 Molarity of alkaline solution. The ratio of alkaline liquid to fly ash was fixed as 0.4. For all the samples the rest period was kept as 2 days. The compressive strength test was conducted for each sample and the results showed that there is an increase in compressive strength with the increase in age of specimens. The mix M1 containing 40% sand 60% Quarry Dust shows higher compressive strength as it may replace our conventional concrete.

Keywords: Fly Ash, Alkaline Liquid, Quarry Dust, Compressive Strength

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311 Runes symbols and palmistry- A secret of psychosymbology

Paper ID V7I3-1855 · Pages 1463-1467 · Alternative Therapy

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Runes symbols are used for various purposes. But it is a hidden treasure. Secrets of runes are revealed in this paper.

Keywords: Runes, Mystery, Psychosymbology, Meditation

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312 Anaerobic Digestion of Food Waste for Production of Purified Methane and Bio-Fertilizers

Paper ID V7I3-1862 · Pages 1468-1471 · Civil Engineering

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Anaerobic digestion is a biochemical process in which the organic substances are digested by microorganisms to methane (biogas) and carbon dioxide in the absence of oxygen. This process is spontaneous but the control on large scale requires good knowledge. The search for appropriate models of this entire system of bio gas production with filtration process by providing benefits to society, economy, and environment at the same time make biogas as a sustainable energy resource is covered. The aim of this study is- bio kinetics of anaerobic digestion on several aspects such as microbial activity, substrate degradation and methane production in all economical* aspects. For *this, we developed a system of purifying the biogas by separating the other gases from methane. Purified methane can be used in various fields as domestic and industrial (cooking, electricity, transport and other motive power applications).

Keywords: Anaerobic digestion, Microbial activity, Filtration(Purification), Kinetics, Methane production

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313 Automatic Helmet Detection and License plate recognition using CNN and GAN

Paper ID V7I3-1885 · Pages 1472-1474 · It

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Enforcing use of helmet on every bike- rider is mandatory nowadays because of high accident rate and poor road conditions. There are laws regarding safety measures which ensure use of helmet. But for now, they involve manual intervention which is not so effective as of now because bike-riders sometimes tend to escape without any penalty/fine after breaking the safety rules like wearing a helmet while riding. Automation is better

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way to deal with this problem but automation in this area comes with its own challenges. To name a few, Low quality image frames (low image resolution, pixel density etc.), rain, dew and fog and partly hidden faces. The robustness of detection methodology strongly depends on the strength of extracted features and also the ability to deal with the lower quality of extracted data. The first goal of this project is to boost the potency of helmet detection and then recognizing the license number plate recognition. This model consists of many essential steps developed using today's most advanced amp; optimized CNN, GAN models amp; libraries. It is a classification based model that uses supervised learning approach to train CNN and Character Segmentation algorithm. The proposed helmet detection model can be used to detect helmet and recognizes license plate even in adverse conditions using character segmentation and CNN.

Keywords: CNN, GNA, Py, Server Handling

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314 Deploying Plant Tissue Culture Simulation use case for E-Infrastructures

Paper ID V7I3-1825 · Pages 1475-1480 · Computer Science

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E-Infrastructures can be defined as networked tools, data, and resources that support a community of practice (CoP), broadly including all those who participate in and benefit from research. During the UNESCO-HP BGI project (2009-2012), the University of Nigeria team conducted experiments on plant tissue culture under the theme, "sustaining the plant tissue culture component of grid computing". Plant Tissue culture is a method for plant propagation under in vitro conditions. Different types and parts of plants (known as explants) may be cultivated in vitro. Because plant tissue culture is still in its empirical stage, it is time-consuming, cost-intensive, and manpower demanding. These necessitated the design and development of a plant tissue culture simulation application that predicts explant yields using multiple regression models. The initial version that was developed during the BGI project with a prediction accuracy of about 67%, unfortunately, was not deployable on an e-infrastructure like the grid or the cloud. Hence, during the Sci-GaIA project (2014-2017), a use case for the development of a newer version, Plantisc2, that is deployable on e-infrastructure was proposed. The outcome of which is reported in this paper.

Keywords: Plant Tissue Culture; simulation; E-Infrastructure, Prediction, Auxins, Science Gateway

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315 Obstacles and possible enablers to corporate governance practices in Yemen

Paper ID V7I3-1903 · Pages 1481-1487 · Commerce

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The main objective is to measure and evaluate the stakeholders' views regarding the barriers and potential

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enablers to the application of corporate governance in Yemen. Executives and internal auditors work in the banking sector as internal stakeholders and external auditors as external stakeholders. A questionnaire is the data collection tool. The study concluded that 'the spread of corruption in the government sector is the most crucial barrier. Simultaneously, 'the cost of applying governance is higher than its benefits' is the least affected barrier. In contrast, enhancing professional accounting and auditing bodies, the inclusion of corporate governance in the University Education program; the adoption of international accounting and auditing standards are the most crucial enablers. A study recommended that the government should update financial and supervisory laws and legislations, and the executive authority should monitor their implementation, supporting the anti-corruption process, establish the stock market, spreading the concept of governance in Yemeni society, adding corporate governance as a scientific subject taught in universities and develop and implement training programs to raise the awareness of corporate governance among employees.

Keywords: Corporate Governance, Obstacles, Enablers, Governance Practices, Banks Sector, Yemen

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316 A rare case of Factor XIII Deficiency and spontaneous rupture of the Spleen

Paper ID V7I3-1896 · Pages 1488-1495 · Gastrointestinal Surgery

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Introduction Factor XIII deficiency is an extremely rare occurrence & a patient presenting with spontaneous rupture of the spleen is challenging to diagnose and manage. Case Report We present here a case report of a patient diagnosed to have factor XIII deficiency since early childhood, presenting with acute onset abdominal pain with hemorrhagic shock at middle age. On evaluation, the Patient was found to have spontaneous splenic rupture which was managed by emergency splenectomy with adequate blood products transfusion. Conclusion Factor XIII plays a major role in the final step of the coagulation cascade in stabilizing fibrin clot & factor XIII deficiency is a very rare inherited or acquired disorder. Manifestations of factor XIII deficiency vary from being asymptomatic to life-threatening hemorrhagic conditions. Patients may have to be dependent on repeated specific blood product transfusions in order to avoid bleeding diathesis.

Keywords: Factor XIII Deficiency, Spleen Rupture, Splenectomy

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317 Gypsum Plaster

Paper ID V7I3-1908 · Pages 1496-1512 · Construction Engineering

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Alabaster is a form of gypsum used both in building and as a plaster material. Gypsum was discovered near Paris, and “Plaster of Paris” became popular building material. Gypsum plaster is investigated experimentally

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at fire temperatures with respect to their thermophysical properties i.e., thermal conductivity, effective heat capacity, and density. It is shown that depending on different ingredients (carbonates) different endothermic reactions occur between room temperature and 900°C. These reactions strongly influence the temperature dependence of the mentioned properties which in turn affect the response of the material to fire. Based on these experimental results the thermal reaction of a gypsum-protected steel column in fire is modeled for the four types of gypsum. The results of numerical simulations demonstrate clearly the advantages caused by certain ingredients of the chemical composition of gypsum plaster.

Keywords: Gypsum Plaster, Heat Capacity, Density

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318 Assessment of prevalence and risk factors of postnatal depression in postnatal mothers

Paper ID V7I3-1915 · Pages 1513-1516 · Obstetric And Gynaecology

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Background: Affective disorders occur commonly in postpartum period, ranging in severity from mild and transient “baby blues” experienced by 50–80 % of women to postpartum psychosis which affects <1 % of women . Postpartum major depression lies along this spectrum of postnatal mood disorder. The debilitating effects of postpartum depression (PPD) can involve an entire family, and women afflicted with PPD are at high risk for recurrent depression. Majority of them exhibit symptoms by 6 week postpartum and if not treated, many women continue to be depressed at the end of the first postpartum year. Despite its serious consequences and amenity to treatment, PPD often remains unrecognized. Numerous studies carried out in developed countries provide compelling evidence that postnatal depression is associated with long term emotional, cognitive, and intellectual problems in children Materials & Methods: Non-experimental exploratory descriptive research designed is used to conduct the study. Non-Probability Purposive sampling technique was used to select the samples and Sample size was 140 postnatal mothers. Edinburgh Postnatal depression scale, standardized research tool and self structured risk factors questionnaires were used for data collection. The reliability of research tool is 0.75, which is reliable. Result: The study results showed the majority of samples (60%) 84 postnatal mothers is having mild depression, (22%) 31 postnatal mothers are having moderate depression and (18%) 25 postnatal mothers are having severe depression. Chi square was calculated to analyzed the association between the prevalence and risk factors of postnatal depression among postnatal mothers findings revealed that there was significant association between prevalence and risk factors with complications during pregnancy, self history of depression, family history of depression and condition of baby It emphasizes that the planned teaching programme on postnatal depression prevention, care and treatment can reduce the prevalence of postnatal depression. It may minimize the complications and reduce the morbidity rate due to postnatal depression. Keywords: Postnatal Depression, Prevalence, Risk factors, Postnatal mothers

Keywords: Postnatal Depression, Risk Factors, Prevalence, Postnatal Mothers

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319 Secure organization networking

Paper ID V7I3-1891 · Pages 1517-1519 · Information Technology

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Perhaps the greatest concern companies have in doing business over the Internet is the security risk. Hackers, denial-of-service (DoS) attacks, fraud, and even cyber-terrorism are very real dangers. In addition, you'll wonder the way to guarantee the performance and reliability of your Internet-based services. Or, you'll not be sure that you simply have the resources and support needed to deploy and manage eCommerce services and processes. The good news is that a sound network infrastructure can address these issues. At the inspiration of strong e-commerce, infrastructures are routers and switches. An integrated approach to routing and switching lets all workers—even those at different sites— have equivalent access to business applications, unified communications, and videoconferencing as their colleagues at headquarters. This project helps you grow your network over time, adding features and functionality as you would like them while ensuring complete investment protection. All workers—even those in distant locations—have the same access to business applications, unified communications, and videoconferencing as their colleagues at headquarter thanks to an integrative approach to routing and switching.

Keywords: Networking, Denial-of-Service (DoS), Routing, and Switching

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320 Factors influencing efficiency of line pumped concrete for multi-storey building

Paper ID V7I3-1913 · Pages 1520-1526 · Civil Engineering

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Concrete has played an important role in the efforts of architects and engineers who wanted satisfactory and economical materials for concrete and high-rise buildings. Concrete for small-height buildings (up to three -5-storeys), whether common or RMC, is transported and used to transport concrete using buckets, wheel barrows and culverts or sometimes cranes. As the building rises and improves, it takes time to place the concrete in the crane and bucket manner because it is not an endless process and can interfere with the productivity of the concrete works. In such a case, pumping is a concrete method of pumping concrete. The concrete pump offers many favorable advantages such as increased productivity. Increased productivity is important because this means faster completion allows the owner to quickly return on his investment. Therefore, a study is formed for the factors that affect the efficiency and productivity of pumped concrete resources in place of the concreting of buildings. The general information about the concrete pumped in this study, the factors that affect the productivity of the concrete in a high-rise building, the need for pumping concrete equipment and machinery.

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Other factors affecting the placement of concrete will be considered in the study.

Keywords: Productivity, Pumped Concrete, Pumping Equipment

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321 Agile meeting dashboard

Paper ID V7I3-1876 · Pages 1527-1530 · Computer Science

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Communication plays the main role in the modern world of software development. Nowadays Virtual meetings plays important role in our life. Especially due to work from home in the software industry virtual meetings became more important to employees in order to update the work to their team manager. So, we make use of spring tools, full-stack development technologies. There will be two logins available one for the admin that is scrum master purpose and the other for the team member. Admin can log in to his account and add a team member so that he can assign any task that he has created. There is also a tab available for the admin to enter the meeting notes so that he can use that meeting notes as an action item to assign to his team member. There is also a tab available to check the completed action items that have been assigned. The dashboard contains some graphs that represent the number of meetings held, completed and not completed status

Keywords: Agile, Software Development Model, Meeting Notes, Sprint

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322 Abatement the raising temperature through different theory

Paper ID V7I3-1692 · Pages 1531-1536 · Environmental

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High temperature in summer is a big challenge in front of many regions. The current environment challenges

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with the temperature ratio in summer and there's refrigeration system which had some drawbacks to our environment just like global warming and another issue to our family which can't afford the current refrigeration system. According to many Research and survey the most of the regions in India become a higher temperature ratio up to 45°C. So in that research, we will discuss the focus of enhancement present technology of refrigeration system to minimize the effect of the environment, temperatures, and social issues.

Keywords: Temperature, Environment, Refrigeration, Global Warming, Technology

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323 Gender difference in developing loneliness and obsession compulsion symptoms during COVID-19 pandemic

Paper ID V7I3-1735 · Pages 1537-1542 · Psychology

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The purpose of current study was to identify the gender difference in developing loneliness and obsession compulsions symptoms during Covid-19 pandemic. Participants (N=120) including males (n=60) and females (n=60) were selected from Faisalabad city of Punjab, using purposive sampling technique. UCLA Loneliness scale version 3 (Russel, 1996) and Y-BOCS (Goodman et al., 1989 a,b) were used to measure the loneliness and obsession compulsion symptoms. For analytic purpose, independent t- sample test was applied, using Statical Package for Social Science version 26. Findings of analysis indicated that females are more prone to develop loneliness, which is indicated by t =-3.404 at p=.001< .001. Also, females developed more obsession compulsion symptoms as compared to males, which was indicated by t =-3.022 at p=.003 < .001.

Keywords: Loneliness, Obsession Compulsion, Gender difference, Covid-19, Pandemic

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324 Disaster Risk Management of Higher Risk Areas on Floods and Landslides in Rwanda

Paper ID V7I3-1819 · Pages 1543-1549 · Disaster Risk Management

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Due to its topography, several areas of Rwanda are located in high-risk areas. Recently, disasters like floods and landslides have the potential to delay the economic development in terms of damaged infrastructures, displacement and loss of life of the people. In addition, climate change and increase in extreme weather patterns have also increased in recent years. According to the figures from the Ministry of Disaster Management and Refugee (MIDMAR), from January up to May 2018, over 80 people had been killed in rains that had been affecting central and Northern-Western Rwanda, while 74 others were injured. At least 28 people died from heavy rain which resulted in floods along Sebeya River and other areas where people live on steep hills

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were affected by landslides. Furthermore, 898 houses were also destroyed, while over 1,500 hectares of crops were damaged over the same period. Known as “the land of a thousand hills”, Rwanda is one of Africa’s most densely populated countries. Therefore, population increase has resulted in pressure on land use resulting in the construction of human settlements in areas highly susceptible to floods and landslide. In Rwanda more areas are prone to floods and landslides and this is due to various aspect such as topographic, land use type, lack of adequate information and others. Disaster risk management as a worldwide issue, knowledge of disaster-prone areas in Rwanda, can be assumed as an additional tool for detailed information acquisition, henceforth contributing to effective disaster risk management. it is in this regard that this work was conducted to provide information on disaster risk of floods and landslides and their management options in Rwanda. The result revealed that the most vulnerable areas prone to floods and landslides are located in the North-Western while floods had affected the country more than landslides.

Keywords: Disaster, Risk areas, Floods, Landslides

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325 Solution on traffic congestion for Pune

Paper ID V7I3-1917 · Pages 1550-1585 · Construction Engineering

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Traffic condition in most of the cities are very complex. The high increase in number of vehicles on road and increasing urbanization leads to the problem of traffic congestion, which further leads to complications and hazards on the city roads. Many arterial roads in Pune city are suffering from this problem, especially during peak traffic hours. In this work, we witnessed actual traffic congestion problems. For further analysis, we conducted traffic volume survey through manual counting of vehicles and converted this data in to the PCU coefficients. After analyzing all the work, we pinned the root problem of road and proposed a solution to avoid traffic congestions.

Keywords: Traffic Congestion, Peak Hour Traffic, Traffic Volume Study, Traffic Solution, Passenger Car Unit

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326 Effect of vibration from railways on construction sites

Paper ID V7I3-1939 · Pages 1586-1590 · Structural Dynamics

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In consideration of effects of vibration and noise to environment, construction, and human beings . railway is more effective solution over traffic, Railway generated ground born vibrations and noise is a big problems to the peoples , construction sites near the railway lines/track. Ground-borne vibrations resulting from the railway traffic have become an important environmental issue which has aroused a great deal of public attention. In this paper, a survey of the researches conducted on the problem of vibrations resulting from trains moving on railway line/track.. the grooving network in railway track with high speed rail track there is need of improvement in railway tracks/lines. For this we are taking different methods in study , some researchers. There is more effective method is FST (floating slab track) which reduces frequency up to 15Hz, further improvement in FST we trying mass spring system which reduce vibration frequency up to 5Hz. And this is long life (up to 60years) .

Keywords: Railway Slab Track, High-Speed Tracks Maintenance, Life Cycle Cost, Analysis of Rail Traffic

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327 Agriventure – Data analytics for farming and agro-businesses

Paper ID V7I3-1882 · Pages 1591-1596 · Information Technology

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Agricultural statistics and forecasts are a valuable resource that the government has not fully used despite their significance. Our project's goal is to automate this process by incorporating data mining and analytics concepts. More precisely, our project aims to address the social issue of drought by analyzing data for every crop in the state of Maharashtra, including crop statistics, rainfall, temperature and strain, production data, and other factors. Efficient countermeasures and recommendations would be provided based on the detailed studies conducted as part of this initiative, which, if applied quickly, will assist in addressing the drought issue in our state. It will also include forecasts for increases or decreases in consumer demand for specific agricultural goods, which will support agro-based sectors and enterprises. Data may be analyzed to uncover different patterns, such as recommendations to farmers for growing specific crops based on soil type and weather forecasts, district-level rainfall, and increases or decreases in market demand for specific agricultural goods. The project's final product will be research-driven publications that detail these patterns and will be

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based on data collected over the last three years. Drought mitigation measures would be proposed and also crop suggestions for the drought-prone regions, which will aid in the productive operation of AgriBusinesses.

Keywords: Agriculture, Drought Prediction, Crop Suggestion, Machine Learning

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328 Automatic helmet detection & license plate recognition using CNN & GAN

Paper ID V7I3-1921 · Pages 1597-1601 · It

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Enforcing the use of helmets on every bike rider is mandatory nowadays because of the high accident rate and poor road conditions. There are laws regarding safety measures that ensure the use of a helmet. But for now, they involve manual intervention which is not so effective as of now because bike riders sometimes tend to escape without any penalty/fine after breaking the safety rules like wearing a helmet while riding. Automation is a better way to deal with this problem but automation in this area comes with its own challenges. To name a few, Low-quality image frames (low image resolution, pixel density, etc.), rain, dew and fog, and partly hidden faces. The robustness of detection methodology strongly depends on the strength of extracted features and also the ability to deal with the lower quality of extracted data. The first goal of this project is to boost the potency of helmet detection and then recognizing the license number plate recognition. This model consists of many essential steps developed using today’s most advanced amp; optimized CNN, GAN models amp; libraries. It is a classification-based model that uses a supervised learning approach to train CNN and Character Segmentation algorithm. The proposed helmet detection model can be used to detect helmets and recognizes license plates even in adverse conditions using character segmentation and CNN.

Keywords: CNN, GNA, Py, Server Handling

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329 Mechanical response of PTFE-based nanocomposites

Paper ID V7I3-1928 · Pages 1602-1606 · Design Engineering

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Polytetrafluoroethylene (PTFE), reinforced with Boron Carbide (B4C) and Molybdenum disulphide (MoS2) were prepared by Studying the various manufacturing processes and selecting the best suitable for Producing this Composite. Mechanical Properties such as the Tension test, Compression Test, and Hardness (Shore hardness) were done and their results were studies accordingly. The Composition of (MoS2), Boron, and PTFE compounds were varied with different Percentages so as to get the Optimized Result for Tension Test, Compression Test, and Hardness.

Keywords: Polymer-Based Nanocomposites, Fillers, Hardness, Mechanical Property

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330 Image classification based plant disease detection

Paper ID V7I3-1927 · Pages 1607-1611 · Artificial Intelligence

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Agriculture is one of the important aspects in the world, also the contribution of agriculture to the GDP of India increased to 19.9 percent in 2020-21 from 17.8 percent in 2019-20. Globally crop disease becomes a major cause of concern, so to overcome this concern a plant disease detector should be there which gives good results and increases the yield for farmers. In this scenario, the best option for dealing with crop disease identification is an Image Classification based disease detection system. The key goal of this project is to identify the disease in real-time by uploading an image of the infected plant leaf to the system. Aside from that, the system suggests remedies for the particular disease that is identified by the system. Our proposed research paper includes various phases of implementation namely data set creation, image pre-processing, image post-processing, and finally disease classification and grading. Overall, we are using machine-learning techniques to train the dataset and finding the disease for that particular plant.

Keywords: Image Classification, Pre-Processing, Post-Processing, Extraction

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331 An efficient data pre-processing model for machine learning

Paper ID V7I3-1922 · Pages 1612-1614 · Data Science

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Currently, data pre-processing is one of the areas of nice interest as a result of it permits the discovery of hidden and infrequently attention-grabbing patterns in massive volumes of information. information scientists pay most of their time on information preparation tasks that have investigation regarding the info, loading information, and cleanup information, in line with an exploration conducted by Anaconda. The real-world massive information sets square measure obtained from several sources and contain data that tend to be

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incomplete, creaky, and inconsistent thence required correct investigation. during this context, it’s vital to arrange information to satisfy the necessities of information mining algorithms. this can be the role of the information pre-processing stage, within which information cleanup, transformation, and integration, or information spatiality reduction square measure performed. just about any sort of information analytics, information science or AI development needs some sort of information pre-processing to supply reliable, precise, and strong results for enterprise applications.

Keywords: Mode, Median, Mean, Pre-Processing, Outlier, Feature Scaling

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332 A Novel Approach of Preventing Cyber Attack on Industry 4.0

Paper ID V7I3-1935 · Pages 1615-1617 · Internet Of Things

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The Internet of things (IoT) describes the network of physical objects "things" that are embedded with sensors, software, and other technologies for the purpose of connecting and exchanging data with other devices and systems over the Internet.The IoT concerns a wide range of modules like the data acquisition, communication, sensors etc. Owing to the lack of consideration of cyber security threats, they have an inherent technical debt which results in compromised medical devices with unpredictable behaviour. With the increasing market share of the IoT devices in the healthcare field, it has offered a simple door for cyber criminals trying to misuse and profit from device vulnerabilities. In this paper we discussing about attack on smart bulb. We are providing cyber security on smart blub with different module such as attacking on smart bulb then detect the that particular attack last prevent the attack.

Keywords: IoT, Zigbee, LED, Wires, Arduino, NodeMCU

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333 Design and development of men’s and women’s garments from the analysis of 2021 trends for Spring/Summer

Paper ID V7I3-1687 · Pages 1618-1624 · Fashion Designing And Forcasting

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Fashion forecasting is focuses on upcoming trends. A fashion forecaster predicts the colors, fabrics, textures,

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materials, prints, graphics, beauty/grooming, accessories, footwear, street style, and other styles that will be presented on the fashion shows and in the stores for the upcoming seasons. The concept applies to not one, but all levels of the fashion industry. The purpose of this Project is to establish or set a new trend which will be accepting for people for long period of time. Which will be shown in a designer collection of 6 garments combined with both men's and women's wear using the fashion trend color of SS 2021.

Keywords: Fashion Forecasting, Fashion Trend, Fashion trend 2021, Fashion trend Summer/ Spring 2021, Fashion trend difference between Indian and International.

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334 Review on the applications of machine learning models for stock market predictions: A literature survey

Paper ID V7I3-1911 · Pages 1625-1629 · Machine Learning

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Financial stock values are non-linear, volatile, and chaotic, making them one of the most challenging financial time series to predict. The incentive of financial gain has led many researchers and academia to devise methods to predict the stock market, despite copious uncertainty. Because of their ability to recognize complex patterns in several applications, machine learning models are extensively researched among the most recent methods. In this paper, Support Vector Machine, Artificial Neural Networks, and Case-based Reasoning for stock market prediction are surveyed. This paper also reviews sentiment analysis to highlight the behavioral trends of the stock market and its investors with the advent of technology. A generalized modeling methodology for applying machine learning techniques to the stock market is proposed in this paper.

Keywords: Artificial Neural Network, Case-Based Reasoning, Sentiment Analysis, Stock Market, Support Vector Machine

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335 Behavioural Analysis and Modification using classification with Machine Learning

Paper ID V7I3-1933 · Pages 1630-1635 · Behaviour Analysis

Divyansh Palia, Research Scholar, Bennett University

To form up a particular profile about a person, examining is required and this study of examining the component of someone's daily reactions is known as Behaviour Analysis. The component is used in psychology for suggesting and developing different types of profiles and content for user and later developed in Information database and technology. To make an application in order to user's personal needs new trends are introduced with usage of Artificial Intelligence (AI). In many applications like innovation to perform everything from anticipating practices to altering a home's renovation suggestions we use Machine Learning and Artificial intelligence technology. The technique that is use to advance the rule proficiency that rely upon the experience is known as Machine learning. A Numerical model and its real work is inferred to machine to utilize

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computational techniques from the data methodology. A Person's Behavioural attitude can be easily altered using Machine learning and deep learning algorithms.

Keywords: Behaviour Analysis, Psychology, Machine Learning, Artificial Intelligence.

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336 Different multipliers and a new architecture of multiplier and accumulator based on radix-2 MBA

Paper ID V7I3-1783 · Pages 1636-1639 · Multipliers

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This paper consists of a detailed review of five multipliers compared with respect to their parameters speed, area, power consumption, and circuit complexity namely are array multiplier, modified booth multiplier, Wallace multiplier, and modified booth Wallace multiplier also in this project experimental analysis of Multiplier and Accumulator (MAC) with the help of modified booth Wallace multiplier is proposed to perform the arithmetic operation with high speed, the performance was elevated when two operation multiplication and accumulation was combined and devised with the carry-save adder(CSA). Because of the accumulator propagation delay which is largest after merging CSA and MAC, it results in improved performance. Radix-2 modified booth algorithm based on 1's complement has been used in proposed CSA design the bit density of multiplier and multiplicand are going to increase by using the modified booth algorithm. To decrease the number of input bits, carries propagates through the LSB of partial products so has to generate the LSB in advance. A pipeline scheme has been introduced in the architecture proposed for MAC in order to accumulate the intermediate result in the form of sum and carry so that the performance of architecture gets improved. While keeping the clock frequency the same the proposed architecture is twice efficient as of previous design

Keywords: Multiplier And Accumulator, Booth Multiplier, Carry Save Adder, Carry Look Ahead Adder, Digital Signal Processing

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337 Fault Detection in Induction Motor

Paper ID V7I3-1889 · Pages 1640-1642 · Electrical Engineering

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As we are know the induction motor is processing the main part in the industries as well as the home appliance like motor pumping the water and is frequently effected by the open circuit ,short circuit,earth leakage, and over loading faults ,it is very difficult to identify and take long duration for identification of faults it causes main operation of the industry production for long duration of time to avoid this we are going to propose this project called smart fault detector of induction motor.in this project we are identify the type of fault occur in the

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induction motor and immediate intimate to the operator.so operator will take the necessary actions depends upon the type of fault so this will cause the major production of the industry will not shunt down for a long duration.

Keywords: Induction Motor, Faults, Operator

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338 Effectiveness of Diabetes Education Package on knowledge and lifestyle among prediabetes adults in urban communities, Bangalore

Paper ID V7I3-1936 · Pages 1643-1644 · Nursing

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Diabetes is one among the most problems in health system and a worldwide public health threat that has increased over the past 2 decades. India is that the diabetic capital of the planet-and by 2030, India will have the very best number of diabetic people within the world (WHO). India is that the diabetic capital of the planet, and by 2030; India will have the very best number of diabetic people within the world (WHO) Diabetes is preceded by Prediabetes often leads to type 2 diabetes, stroke and cardiovascular diseases. The objectives of the study were to evaluate the effectiveness of diabetes educational package on knowledge and life style among prediabetes adults. Pre-experimental -one group pretest-posttest design was used. The Adults with prediabetes were selected and administered with Diabetes Educational package. The findings revealed that Diabetes Educational Package had significant impact in improving the knowledge and life style among prediabetes adults.

Keywords: Prediabetes, Knowledge, Life Style, Diabetes Education Package

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339 Enhancement of performance of heat sink by geometrical modification

Paper ID V7I3-1945 · Pages 1645-1647 · Heat Transfer

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Firstly, a standard heat sink is chosen and its properties are noted. A similar heat sink is designed in CATIA and simulated over certain boundary conditions on COMSOL Multiphysics. After validation of both the results, different geometries of heat sink which are subjected to give better performance are designed and simulated. Simulations on modified geometry of interrupted wavy fin profile are conducted on COMSOL. The heat sink with

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greater performance is to be selected. It is observed that the heat sink with interrupted wavy fin profile design delivers better performance. It reduces the temperature of a 15* 15 mm heat sink by 3.750C provided the velocity of air is 1.5 m/sec. Due interrupted wavy fin profile there is formation of vortices which consequently results in increased air circulation. This leads to better cooling of the heat sink.

Keywords: Interrupted Fin, Wavy Design, Heat Transfer Coefficient, Thermal Management

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340 Performance analysis of “Shell and Tube” and “Plate Heat Exchanger”

Paper ID V7I3-1948 · Pages 1648-1651 · Thermal Engineering

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In this paper an experimental setup of one ton of refrigeration was developed. Shell and tube heat exchanger and plate heat exchanger were used as an evaporator. Plate heat exchanger for one ton capacity was available and “shell and tube” heat exchanger was manufactured for one ton capacity. The performance of both the heat exchangers were compared through experimentation. Also these heat exchangers were compared on the basis of area, volume occupied.

Keywords: Plate Heat Exchanger, Shell and Tube Heat Exchanger, Heat Transfer Coefficient

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341 Automated greenhouse monitoring and control with auto rooftop opening system

Paper ID V7I3-1952 · Pages 1652-1655 · Engineering And Technology

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Dhanashri Salunkhe, Research Scholar, Annasaheb Dange College of Engineering and Technology, Ashta, Ashta, Maharashtra
Atharvraj Sawant, Research Scholar, Annasaheb Dange College of Engineering and Technology, Ashta, Ashta, Maharashtra
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The development of internet technology has brought light to the development of agricultural modernization. This paper introduces agriculture greenhouse monitor system which is low cost power consumption system constructed on the basis of wireless communication. ZigBee Technology is a new wireless communication technology, relative to Bluetooth and Wi-Fi. ZigBee Technology has the characteristics of low complexity, low power consumption, low data rate and low cost. This technology is suitable for the field of automatic control system and implementing devices. Proposed framework consist closed loop system that will execute control action to adjust temperature, humidity, light intensity and soil moisture according to changes in environment. Along with basic structure or circuit where input to Arduino is driven to get specified output as per path. This all

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which will be interfaced with Arduino Controller. The significant data monitored by sensors will be used as primary initialization in the structure as any High/low occur in the environment of the greenhouse. The main components such as Arduino-Nano is driven with its programme, GSM module connectivity is based on the main source of user and driver is placed to work along with the input of the Sensors as the main data such as Temperature, humidity and moisture is fixed as per requirement of the specific crop. The Strategies and processes used in past researches are studied and compared with our process. The results from the process or evaluation are compared with the real values present.

Keywords: Greenhouse, Automation, ZigBee Technology, Sensors, Agriculture.

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342 The business strategy for service models to shift from Minimum Viable Product (MVP) to Product-Market Fit (PMF)

Paper ID V7I3-1943 · Pages 1656-1661 · Business Policies And Strategies

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The minimum viable product (MVP) enables organizations to promptly begin the learning process by integrating feedback. The concept of MVP has evolved over the years and its application is most often used in a start-up environment. The established organizations struggle to develop MVPs. The evolution of service models has come all the way from an on-premise service model to Software-as-a-Service (SaaS) model. The usage of on-premise or licensed software service is still around in this century considering flexibility to customize and data security within customer’s firewalls. With the risks involved, the on-premise model is not scalable in terms of security, loss of documentation, or domain knowledge. This is where the cloud computing service models help to document every feature of each version of the software which makes it easier for the team to hit the ground running. Much of the enterprise software is now moving to the cloud service models with the MVP approach to launch the key modules based on the market requirement. The purpose of this review is to provide a constructive model that is adaptive for managing products. Furthermore, the paper critically presents theoretical and practical implications linking the underlying business strategy. The details of this market validation approach are outlined in this article that supports organizations' understand of how the market validates value proposition and business model.

Keywords: Service Model, On-Premise, LaaS, PaaS, SaaS, MVP, PMF, Cloud Computing

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Study of the behaviour of street dwellers in relation to architecture

Paper ID V7I3-1926 · Pages 1662-1668 · Architecture Homeless Behaviour

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Homelessness is a massive problem in India. Homeless people aren't ready to earn they face several issues like lack of a secure and appropriate home, lack of hygiene and sanitation, kids additionally lives on the streets as a result of poverty, state, alcoholic families, death of parents or they additionally try and collect garbage just in case of seeking cash to shop for food. homelessness describes the condition of individuals while not a regular day and secure housing inside every style of economic setup within the world notably in urban areas. They carry their few controls with them, sleeping on the streets, near doorways or on piers or in another house, on an additional or less random basis person is outlined into three classes based on the sort of accommodations a publically supervised or in a privately operated shelter designed to offer temporary living accommodations(including welfare hotels, congregate shelters, and transitional housing for the mentally ill) or a public or personal place not designed for, or unremarkably used as regular sleeping accommodation for groups of people. With a population of spill 1 billion people, India is the second most populated nation in the world. The homeless live and die on the streets. This paper aims to identify the relation between homeless people’s age and behaviour, revealing useful behavioral markers and policies.

Keywords: Homeless, Street feature, Street Environment, Wellbeing, Affected Factors, Behaviour

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Smart Selfie using Computer Vision

Paper ID V7I3-1958 · Pages 1669-1671 · Computer Vision

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In this research, we will use computer vision to implement real-time face detection and tracking of the lips position from high-definition video. As Face detection and recognition from an image or a video is a popular topic in biometrics research, it has widely attracted attention due to its enormous application value and market potential, such as a real-time video surveillance system. For face detection and tracking the location of the lips, we use the OpenCV library. The experimental findings were produced utilising computer vision and OpenCV framework libraries at 30 frames per second at 1080p resolutions for increased accuracy and speed in face detection and tracking of lips position, as well as taking a high-definition smart selfie.

Keywords: Face Detection, Face Recognition, OpenCV

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345 Analytical study of impeller blade using Ansys

Paper ID V7I3-1938 · Pages 1672-1679 · Mechanical

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FEM stands for finite element method. It is a numerical technique used to perform finite element analysis (FEA) of any given physical phenomenon. FEM had made modeling very easy with more detailing, accuracy, less time-consuming, etc. It has many applications which include stress analysis, slope stability analysis, analysis of dams, etc. Finite Element Analysis software, that is, FEA software, is a common tool used, today. 3D CAD, SolidWorks CAM, Composer, Electrical 3D, Electrical Schematics, Inspection, Simulation, and Ansys are some of the best FEA software. In this paper, we are going to analyze total deformation and equivalent stress on the Impeller Blade. The model of an impeller blade was modelled on CATIA (stands for Computer-Aided Three dimensional Interactive Application) and analyzed on Ansys.

Keywords: Ansys, Structural Analysis, Rotational Velocity, Thermal Conduction

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346 Animatronic Hand

Paper ID V7I3-2001 · Pages 1680-1683 · Mechatronics

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Animatronic hand controller or shadow hand is another attempt to come closer to bio inspired robotic hand. The use of robot is becoming a daily need, we use them when manufacturing product, aiding people with needs, and even enhancing our own weakness. Animatronic hand is controlled by a user to overcome weakness, as it is controlled by controller’s wish. Approximating the kinematics of the human hand was kept on top priority while constructing the animatronic hand. Each joint of this hand has a movement range again the same as or very close to that of a human hand, including the thumb and even the flex of the palm for the little finger.

Keywords: Animatronic Hand, Shadow hand, Flex sensors, and Bio-inspired hand, Solidworks, PCB

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347 A novel approach to safeguard online exam

Paper ID V7I3-1998 · Pages 1684-1687 · Computer Science

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Online Examination is turning into a significant developing segment all through the world because of the current pandemic situation. A significant test in the online examination is to improve security and the awareness of techniques without affecting candidate experience to satisfy the quickly developing need for online examination. Aside from this problem, increasing corona virus cases is likewise a major worry in the horticultural segment. The reason for this examination work is to propose a smart technical strategy dependent

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on the Exam Security to manage unfavourable circumstances. Online examination assists with decreasing chances, of cheating, and subsequently increment the security aspects. This paper suggest a methods which help you to avoid the hacks, and proctoring system which monitors the examination process, and also capture the candidate's illegal movements for future use.

Keywords: Secure Browser, Smart Proctoring, Data Encryption

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348 Quantifying COVID-19 content in the Online Health Opinion using Machine Learning

Paper ID V7I3-1996 · Pages 1688-1692 · Computer Science

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A large proportion of the potentially harmful lies in COVID-19 appear to be in web AI to explore things among the online enemies of the development of prosperity, clear objectives (" anti-vax "). We track that the counter-vax counter that develops a smaller dose of COVID-19-less than its counterpart, the strength of the vaccine (" vax- ready ") area. Regardless, the location of the counter vax range is wide, so it can draw a wide range of people looking for the COVID-19 theme on the web, for example people who are aware of the required inoculation of COVID-19 or those looking for optional adjustments. After that the local counter vax is better designed to attract new and ongoing help than good vax neighbors. This is disturbing as the lack of a complete collection of COVID-19 neutralizer would mean that the world is in short supply in terms of providing security of integration, leaving countries open to future COVID-19 renewal. We provide a model of negligence that interprets these outcomes and can help to study the rational skills of the intervention approach. Our approach works in many ways and therefore deals with the serious problem facing the establishment of electronic media for researching large volumes of web duplication of success

Keywords: Covid 19, LDA, Facebook

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349 Disease detection using Machine Learning

Paper ID V7I3-1964 · Pages 1693-1695 · Machine Learning

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Cancer is a lethal disease produced by the aggregation of hereditary disorders and a variety of pathological alterations. Cancerous cells are life-threatening abnormal regions that can grow in any portion of the human body. Cancer is also known as a tumour that must be diagnosed swiftly and accurately in the early stages in order to determine what treatment options are available. Despite the fact that each modality has its own set of problems, such as a difficult history, incorrect diagnoses, and therapy, which are all major causes of death. The

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goal of the study is to examine, review, evaluate, and discuss current breakthroughs in human body cancer detection utilising machine learning approaches for breast, brain, lung, liver, and skin cancers, as well as leukemia. The study shows how machine learning with supervised, unsupervised, and deep learning techniques can help in cancer diagnosis and cure. Several state-of-the-art approaches are grouped together, and findings from accuracy, sensitivity, specificity, and false-positive metrics are compared on benchmark datasets. Finally, potential future work is indicated by highlighting obstacles.

Keywords: Activation Function, Convolution Neural Network, Datasets, Data Preprocessing, Image Classification, Sigmoid Function, X-Rays

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350 Design and Development of Dynamic Prosthetic Leg

Paper ID V7I3-1985 · Pages 1696-1700 · Mechanical Engineering

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This paper centers on planning and Development of Dynamic Prosthetic Leg for beneath amputees. A power framework can possibly lessen the limits in scope of movement and positive work yield of aloof strolling and running feet. Amputee walk in different day by day life circumstances utilizing aloof, semi-dynamic and controlled prostheses is analyzed. Regions for upgrades are examined. It could be required for assortment of reasons including illnesses, mishaps and intrinsic deformities. The general objective of prosthetics is to help standardize amputees. Essential intention of the task is to be equipped for change between standing, strolling and running with speed transformation.

Keywords: Prosthetic, Dynamic, Foot

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351 Social distance monitoring using HOG and DNN

Paper ID V7I3-1976 · Pages 1701-1705 · Artificial Intelligence

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As of now, the world is facing its greatest pandemic COVID-19. Social distancing has become a part of our lives more than ever during the recent times .From our project, we would like to analyze a video that displays people walking around and provide the output in the same frame whether or not the people shown in the video are maintaining a social distance between them. The code will then be generalized in order to take any sample video as input and to provide the output.This will potentially help authorities to monitor public areas for practicing social distance, which will eventually help to curb the spread of a contagious disease.

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Keywords: HOG, DNN

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352 Study on quantitative & qualitative assessment on phytochemical activity and in-vitro study on antioxidant & antimicrobial activity from different organic extracts

Paper ID V7I3-1972 · Pages 1706-1712 · Bio-chemistry

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The present study was to evaluate the phytochemical attributes and overall inhibitory effects of oceanic algal species of UlvaLactua, Gracilaria Corticata, and Ascophyllum Nodossum, collected from the area near Kovalam Beach (fisher's spot), East Coast, Chennai, Tamil Nadu. Algal species are rich in bioactive compounds. Besides, the selected species are a highly diverse group of organisms from secondary metabolites of the natural source are potential sources. Oceanic algae are an interesting group in their broad spectrum of biological activities such as antibacterial, antioxidant, and anticancer. Methods: The algal extracts were prepared using a solvent extract approach involving ethanol, acetone, DMS, DCM, and double-distilled water as the solvent of interest for the study. Furthermore, the antibacterial activity and phytochemical activity of Ulva Lactua, Gracilaria Corticata, and Ascophyllum Nodossum. were tested against Candida albicans and Aspergillus niger and Escherichia coli and Proteas Vulgaris by well diffusion method. The phytochemical assay screening of the extracted species of Ulva Lactua, Gracilaria Corticata, and Ascophyllum Nodossum showed a greater degree of phytochemical attributes. In the antibacterial activity the growth of two virulent strains of pathogenic bacteria, E. coli and Proteas Vulgaris, and similarly concerning fungal strains of Candida albicans and Aspergillus niger were observed to exhibit a greater degree of inhibitory effect by the algal extracts, which are observed via the zone of inhibition (in mm). These results showed the investigated oceanic algal species, Ulva Lactua, Gracilaria Corticata, and Ascophyllum Nodossum showcased great biological potential, which could be considered for future uses in pharmaceuticals, food.

Keywords: Oceanic Algal Species, Antioxidant, Phtochemical Study and Antibacterial Activity

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353 Effective implementation of smart agriculture monitoring system using IoT sensor network

Paper ID V7I3-1975 · Pages 1713-1717 · Iot

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Agriculture is an essential part of the Indian economy. More than 60% of India's agriculture-based population and a third of the nation's income comes from farming practices. Hence, it plays an important role in the

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country's development. The possible solution to these problems is to go for modernized agriculture that is part of modern trends. Therefore, agriculture can be made smart with the help of IoT and other technologies. Smart agriculture increases crop yields and reduces water waste and the imbalanced use of fertilizers. The most prominent feature of the project is that it measures various agricultural parameters that affect yields like moisture sensor, temperature sensor, ultrasonic sensor, and rain sensor using ATMEGA4809 chip and displays in LCD. Secondly, it sends all data to the cloud for analysis. The paper also includes an android mobile application that allows farmers to easily access information. In addition, the work also proposes an intelligent irrigation system that can optimize water consumption.

Keywords: Internet of Things (IoT), Farmers, Intelligent Irrigation System, Crop Yields, Sensors, Atmega4809 Chip

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354 LIFI Technology

Paper ID V7I3-2005 · Pages 1718-1721 · Information Technology

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Light Fidelity (LIFI) is Visible Light Communication (VLC) based innovation that makes a light as a media of correspondence supplanting the link wire correspondence. LIFI develop to defeat the pace in WIFI, while utilizing LIFI the pace can reach up to 14 Gbps. This paper presents a presentation, geographies, Performance, Advantage and Disadvantage of the LIFI innovation. The consequence of this paper can be utilized as a source of perspective to foster LIFI innovation.

Keywords: LIFI, WIFI, Visible Light Communication

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355 Business process management and its future

Paper ID V7I3-1965 · Pages 1722-1725 · Computer Science

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For any enterprise operations, it has always been at the heart to optimize its business processes. And with the allure to serve organizations in achieving operational excellence, increasing productivity, or saving costs, there has been growing interest and boom in Business Process Management (BPM). And as there is growth in sophistication and Artificial Intelligence (AI) becomes more cost-efficient, there has been an increasing impact of AI from lower-level functional tasks to the highest levels of enterprise restructuring in BPM. With significant growth in machine learning and AI, we can expect it to have a greater impact on BPM.

Keywords: BPM, Business Process Management, Impact of AI on BPM

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356 Machine Learning and NLP based System for Medical Data Analytics and Prediction

Paper ID V7I3-1977 · Pages 1726-1730 · Machine Learning

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In the present technical era, healthcare providers generate large amounts of medical data on a day-to-day basis. Produced clinical information is placed away carefully as Electronic Health Record (EHR) as essential information archive of medical clinics. These days Artificial Intelligence (AI) have been developing rapidly in recent years. Particularly, wellbeing data framework can get most advantages from the AI benefits. Specifically, symptom based disease prediction expectation exploration and creation turned out to be progressively mainstream in the medical care area as of late. In the paper, we have proposed a structure to assess the proficiency of applying both Natural Language Processing (NLP) and Machine learning (ML) advances for disease prediction framework. As an example we have interpreted n2c2 heart related disease symptom datasets from DBMI portal. The acquired patient records is in XML format which is parsed and converted to structured format and naive Bayes algorithm is applied for training.

Keywords: Machine Learning, Artificial Intelligence, Natural Language Processing, Data Extraction, EHR, Naive Bayes

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357 A study to assess the effectiveness of Structured Teaching Programme (STP) on knowledge of high school students regarding drug addiction in selected high schools at selected rural areas

Paper ID V7I3-1942 · Pages 1731-1735 · Health Research

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Drug addiction/abuse is a social problem, not in India alone, but the entire world. The use of drugs has its own culture and history, which varies from country to country. The problem of drug abuse is growing at an explosive rate and in just a little, over a decade it has spread its malevolent tentacles to almost every part of the globe surmounting almost all barriers of race, caste, creed, religion, sex, educational status, economic strata, etc. Drug addiction among adolescents has become a global challenge and also an important public health concern and for the past two decades, there has been a dramatic increase in the demand for interventions to address the substance abuse problem. This demand has led to the development of multiple primary, secondary and tertiary substance abuse prevention programs. Material and Method: In this study quasi-experimental two-group pre-test - the post-test design was adopted. The study sample considers the 60 students' high school regarding drug addiction in selected High schools in selected rural areas. Its shows that the difference between pre-test and post-test overall knowledge score was 28.26%. So the results of the study showed the difference

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between the pre-test and post-test knowledge scores of the high school students regarding drug addiction were statistically significant and the difference is due to the administration of structured teaching programs to high school students regarding drug addiction. The post-test analysis revealed there is significant association was found with age, monthly income of the family, year of high school study, and source of information regarding drug addiction at $p < 0.05$, and no association could be found with other demographic variables of high school students. Conclusion: The majority of students awarded with the substance abuse side effect, Treatment, Coping with addiction by structured teaching Programme. The rise in drug use by young adolescents requires special attention from all the adults (and institutions) who work with the young college-going population.

Keywords: High School Students, Drug Addiction, Structured Teaching Programme (STP), Knowledge

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358 Freedom of media and politics in India: The truth or a façade?

Paper ID V7I3-1962 · Pages 1736-1744 · Media

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Free press and media can be defined as tools provided to media organizations which are not controlled or restricted by government censorship in political or ideological matters. The Constitution of India provides freedom to the press so that they can express and criticize the government as well as their actions in a balanced manner. While the exact definition is variable, politics can be generally defined as a component of a nation, structured in a hierarchical order, with a responsibility to govern and ensure the well-being of the citizens. The main objective of the paper is to investigate the relationship between media and politics and the impact they have on each other. In total, 208 people were received and were used for the final analysis and to explore the current socio- political scenario in the country due to the lockdown imposed during April- May, 2021. The sample size satisfies the requirements for the result analysis The random sampling method was used to establish a link between media, politics and the people. The results revealed that there is a strong relationship between media and politics and they favour each other to further their own agenda and to strengthen their popularity and to remain in power and to dominate in the market. The study discovered a new dimension to the issue that even the people of this country are somewhat responsible for the present media crisis and political corruption. The media and the government are setting the trend of working together and are being accused of endorsing political propaganda instead of reporting the truth. The researchers dealt deeper into the reasons as to why the press had to incorporate politics and their agendas to survive and the impact the media has on people in sustaining democracy in a country like India. As this is a conceptual topic, one can find the application of a combination of both primary and secondary data for the study.

Keywords: Free Press, Politics, Power Balance, Democracy

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359 Contactless sanitizer dispensing and temperature reading

Paper ID V7I3-1340 · Pages 1745-1748 · Electronics And Communication

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In recent times with the rapid spread and chaotic effect of the Covid-19 pandemic, avoiding any exposure to the viruses should be evaded, which has become a compulsion. The basic concept of this project is to make an approach to make the process contactless and hassle-free. ‘Automated hand sanitizer dispenser’ was our mini project which used Arduino Uno as the microcontroller, Ultrasonic sensor as the automated sensor interface to check the presence of the hand and other relative components to make a circuit system pump a certain quantity of sanitizer every time a hand is sensed beneath the setup. Certain plug-ins and switch connections are added to monitor the usage period. Once the circuit is switched ON the Arduino UNO which functions with respect to the code and relative to the relay, which processes the motor to accelerate the pump which will dispense a certain amount of sanitizer from the container automatically. The ‘Contactless Temperature Reading’ is an extension of our mini-project. The purpose of this project in its entirety is to dispense sanitizer and to read the human temperature in a contactless manner. In order to realize the human body temperature fast and non-contact mode, an infrared human body temperature sensor is mainly used to convert the human body’s infrared into a voltage signal, which is then converted into an electrical signal that is passed to Arduino NANO, which is the microcontroller in this case. The signal is then passed to OLED to display the temperature on the screen. The ultrasonic sensor is used to know the distance at which the object is placed. It detects the object with the help of a reflected echo signal. The power generated on the Arduino NANO board is enough for the proper functioning of the thermometer. The detected temperature is displayed on the OLED display along with a buzz note from the buzzer.

Keywords: Arduino UNO, Arduino Nano, Ultrasonic Sensor, IoT

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360 Breast Cancer Tumor Detection

Paper ID V7I3-1978 · Pages 1749-1752 · Medical

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Women in India confront serious fatalities such as respiratory difficulties, but some also confront serious diseases in the form of breast cancer, which differs for each lady; This dangerous illness has been detected in more than half of middle-aged women. Breast cancer is found by looking for lumps in women's breasts that look like tumors. These anomalies' cells can be treated right away if they're found. However, benign tumors, which are fully non-cancerous, can form lumps with cells of the same size and no structural changes between them. Machine Learning(ML) techniques are frequently utilized to create tools for physicians and diagnosis of

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carcinoma, which can dramatically improve patient survival rates. The goal of this project is to create a machine learning system that can predict if a tumor is benign or malignant, as well as visualize the properties of both cancers will next be illustrated via graph plotting. Support Vector Classifier(SVC), Logistic Regression, Decision Tree Classifier, and KNN are the used Machine Learning(ML) Algorithms for Breast Cancer Tumor Detection. To compare and assess the accuracy and ROC plotting performance of Machine Learning Classifiers.

Keywords: Support vector Classifier, decision tree, KNN, ROC, Machine learning

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361 Masking private user information using Natural Language Processing

Paper ID V7I3-2048 · Pages 1753-1763 · Computer Science

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The Internet brings a lot of efficiency to our lives but we must be aware that everyone exchanges a huge amount of data while interacting with the internet. One of the most important leisure activities one gets from the internet is to be able to socialize. For example, social media has become part and the core of our lives. With more than 2.3 billion active users, data privacy is an issue of concern. The world of the internet has become full of frauds hunting for personal information they leverage for their immoral activities. So, coming up with an algorithm that could secure data and process it such that no private data is involved, and machines continue to be trained with greater data. This could mean a dataset with data that is processed in a manner to make it anonymous. If there is any private information, we will mask that information with pseudo data. We use Named Entity Recognition using Deep Learning for identifying and masking personal information. In this paper, we will discuss how we mask private data. This model will be a successful technique to hide one's personal information to achieve complete data privacy.

Keywords: Named Entity Recognition, Deep Learning, Social media platforms, Data privacy, Masking, Anonymity

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362 Power generation using PN-Junction

Paper ID V7I3-2047 · Pages 1764-1766 · Mechanical Engeeneearing

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This project concept to generate power with eco friendly envornment and low cost. It is also help to save convectional sources because they can be limited. Power genation using burn waste garbage. To reduce the total cost of power genration The peltier effect genration using burn waste genrate heat supply pn junction this

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heat to genrate temprature diffrence in pn junction and this temperature diffrance the positive terminal proton is to attract the negative terminal of electron and the negative terminal of electron attract to the postive terminal of proton. To generate peltier effect electric charge. This electric charge it used to stored in battery with the help of booster circuit

Keywords: Power Generation, PN Junction

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363 Phishing Websites Classification Based on Machine Learning

Paper ID V7I3-2006 · Pages 1767-1771 · Computer Engineering

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Phishing has been a huge problem since the evolution of the Internet. It is kind of an Internet scam. Therefore, no antivirus or any kind of technical protection can completely eradicate this. But there has been research going on and conducted from intellects across the world to fight this online scam. Researches are coming up with different approaches to deal with this problem. The two main focused approaches taken by researchers to tackle phishing are Black Listing and Machine Learning. Machine Learning is a new and innovative way to tackle phishing. For this thesis I went with Machine Learning and heuristic based approach to tackle phishing. This thesis consist of a comparative study of different Machine Learning algorithm like Logistic Regression and ensemble algorithms like Adaboost and Gradientboost in order to know if ensemble algorithms can do a better prediction rather than standard machine Learning algorithms. The result obtained by ensemble algorithms were good but not as promising as expected.

Keywords: Scam, Phishing, Random Forest, Naïve Bayes, XG Boost, Data loss

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364 Pollution Controlling Bricks

Paper ID V7I3-2018 · Pages 1772-1774 · Civil Engineering

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Air pollution, particularly in crowded cities, is increasing, mainly due to industrial activity and transportation. A crucial element in construction, bricks are the most important materials in the world.Therefore, one possible approach to reduce pollution is to use“smart” bricks, particularly those that incorporate photocatalytic structures in them. Incorporating Titanium dioxide (TiO2) in bricks could degrade and reduce various pollutants under ultraviolet sun radiation. TiO2-infused bricks would also maintain their optical characteristics for far longer than traditional bricks. This study evaluated the ability of bricks containing TiO2to degrade organic molecules, as assessed by the concrete’s ability to degrade Lithol Rubine bk dye. The amount of TiO2in the

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concrete samples was 0%, 2%, 4% of the clay. The resulting bricks were exposed to sunlight for 24, 48, and 72 hours. All TiO2 specimens significantly degraded the Lithol Rubine bk dye, demonstrating the potential of this approach to benefit the smart construction industry and, as a result, fight certain types of air pollution.

Keywords: Bricks, Pollution, Photocatalysis, Titanium dioxide

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365 The rise of cyber crime and need of cybersecurity

Paper ID V7I3-1982 · Pages 1775-1779 · Computer Science

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Network safety adopts a substantial part in the field of data innovation .Receiving the data have gotten conceivably the greatest test in the present day. At whatever point we contemplate the network safety the main thing that rings a bell is 'digital wrongdoings' which are escalating enormously step by step. Different Governments and organizations are partaking in numerous actions to forestall these cybercrimes. Other than different dealings, network safety is as yet a foremost worry to many. This paper for the most part, centres around complications encountered by network safety on the most recent developments .It additionally centres around the most recent of the digital protection procedures, moralities and the designs altering the essence of network protection.

Keywords: Cyber Security, Cybercrime, Cyber Ethics, social media, Cloud Computing, Android Apps

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366 Improved DoS attack detection and Prevention by SVM based optimize Leach Routing and clustering approach

Paper ID V7I3-2031 · Pages 1780-1786 · Electronics And Communication Engineering

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It improves the packet delivery ratio of the network. The following measures were used to assess the success of a previous strategy: packet delivery ratio, throughput, number of flooded packets, and residual network energy. The findings correspond to reliable and secure data transfer between source and destination by addressing DoS assaults. Indeed, a particularly fatal attack is the Wormhole denial-of-service (DoS) attack, in which attackers establish low-latency connections between two network nodes.

Keywords: Denial-of-Service, WSNs, SVM based optimize Leach Routing

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367 Detection of plant leaf disease using image segmentation and Convolution Neural network and machine learning approaches

Paper ID V7I3-2032 · Pages 1787-1791 · Electronics And Communication

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Productivity in agriculture is a big concern. Disease is important in agriculture because it occurs naturally in plants. if good precaution is not taken, so these plants and quantity is diminished. h. As a primary goal of the new Proposed architecture, the use of disease and classifier features is needed to identify proper disease features. The primary aim of successful design is residual learning such that vital facets of firm learning are also improved. Non-linear discriminative learning at the base of a neural network experiments were run in the Village with the measurements of 11 different diseases was designed using the CNN features, which yielded an accuracy rate of 98% on the validation sets.

Keywords: CNN features, Image Segmentation, Machine Learning

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368 Energy Efficient Cluster base routing approach by GWO and Tabu search optimization with Cluster Topology in Wireless sensor Network

Paper ID V7I3-2033 · Pages 1792-1797 · Electronics And Communication Engineering

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A wireless sensor network is a group of nodes that are connected to each other by wireless connection. These types of networks work on the dynamic topology of the network because the positions of nodes in the wireless network are changing continuously. f WSN is increasing rapidly and simultaneously this technology is facing various major challenges of energy constraints depending upon the limited lifetime of batteries as each of its node relies on energy demand for performing the basic operational activities which has become the major reason behind the failure in wireless sensor networks. One node interruption may result in shutting down the overall operation of the system. The nodal operation relies on active TLOde, idle, and sleeping TLOdes. In case of active TLOdes, energy is consumed while transmitting or receiving the data. In case of idle TLOde, the node consumes the energy same as consumed in active type node whereas in case of sleeping TLOde, the node gets shut down in order to save the energy. To build the life expectancy of WSN the usage of vitality in a productive way is a TLOst normal issue.

Keywords: Wireless sensor network, GWO and Tabu search optimization, Cluster base routing

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369 Automatic vehicle plate reorganization and detection by image processing and datamining approach

Paper ID V7I3-2034 · Pages 1798-1805 · Electronics And Communication Engineering

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Automatic Vehicle Plate Recognition (AVPR) is the extraction of vehicle license plate information from an image or sequence of images. From the past thirty years, AVPR is becoming the challenging and interesting area of research. AVPR systems include a wide range of applications. Numerous real-world applications such as electronic toll collection, automatic parking management, access control, radar-based speed-control, border control, criminal pursuit, traffic law enforcement, etc. have been benefited from it. A lot of commercial AVPR systems are available today and yet there are many challenges and issues in accurate recognition of license plates. In India, number plate standards are rarely practised. Licence plates recognition has many problems like unnecessary text, different font size and font type, blur, skew, environmental factors etc. The variations of the licence plate types or environments cause challenges in the recognition of number licence plates. The major objective of this thesis is to develop a robust, accurate and reliable automatic vehicle license plate recognition system. Our suggested approach is performed in three phases: In the first phase, the input image is pre-processed. Character regions are extracted in the second phase, and in the third phase, recognition of extracted characters is performed. The present work has been performed to recognize Indian licence plates

Keywords: Automatic Vehicle Plate Recognition, License Plates, Image Processing

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370 Heart Disease Prediction using Machine Learning Techniques

Paper ID V7I3-1971 · Pages 1806-1810 · Machine Learning And Deep Learning

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Thus preventing Heart diseases has become more than necessary. Good data-driven systems for predicting heart diseases can improve the entire research and prevention process, making sure that more people can live healthy lives. This is where Machine Learning comes into play. Machine Learning helps in predicting the Heart diseases, and the predictions made are quite accurate. The project involved analysis of the heart disease patient dataset with proper data processing. Then, different models were trained and predictions are made with different algorithms KNN, Decision Tree, Random Forest, SVM, Logistic Regression, Adaboost, etc . Thus, this project presents a comparative study by analyzing the performance of different machine learning algorithms.

Keywords: Logistic Regression (Scikit-learn), Naive Bayes (Scikit-learn), Support Vector Machine (Linear) (Scikit-learn), K-Nearest Neighbours (Scikit-learn), Decision Tree (Scikitlearn), Random Forest (Scikit-learn), XGBoost (Scikit- learn), ADAboost(Scikitlearn), Artificial Neural Network with 1 Hidden layer (Keras)

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371 A critical review of the role of media and communication in social development and addressing issues surrounding scheduled castes/tribes

Paper ID V7I3-1984 · Pages 1811-1815 · Sociology And Media Studies

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The media and communication are important tools for the development of people, particularly the marginalised and oppressed segments of society. India's scheduled castes/tribes are such marginalised communities that bear the brunt of the caste system, which is to blame for their backward social and economic status. The situation is exacerbated by the fact that they live in one of the country's most backward and impoverished regions, where development is lacking. This study looks at the role of the media in the development of the Scheduled Caste/Tribe community in India. As professional growth and social status are the indicators of development so these parameters are studied here. The main goal is to understand the various types of media and communication used by Scheduled Caste/Tribe people for occupational needs, as well as which of them is most effective for the purpose. This study also seeks to determine how effective media is in eliminating caste-related discrimination. The study employs an exploratory research design, and it is possible to conclude that media and communication play an important role in professional and social development.

Keywords: Media, Communication, Scheduled Caste, Scheduled Tribe, Indian Cinema

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372 Mulberry leaf disease detection using YOLO

Paper ID V7I3-2039 · Pages 1816-1821 · Neural Networks

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Many states in India have taken up sericulture as an important agro-industry with good results. The mulberry leaf is the most important economic component in sericulture since the quality and quantity of the leaf have a direct impact on the cocoon bearing. Leaf disease diagnosis and classification in mulberry plants can be useful to framers and researchers to identify and classify diseases. It is an interesting technique that aids in managing the pathogens within the fields automatically and effectively at a minimal cost. Many mulberry diseases usually have symptoms on the leaf during the early stages of infections. These can be easily analyzed and classified using images. This paper proposes a model for implementing mulberry infection detection using Convolution Neural Networks (CNN) and You Look Only Once (YOLO). The proposed model identifies and classifies mulberry leaf diseases effectively. The image is divided into several grids before the image processing. The speed and accuracy of detection and classification are relatively high.

Keywords: Convolution Neural Networks (CNN), Mulberry, Mulberry diseases, You Look Only Once (YOLO)

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373 Rapid housing by using Gfrg panels

Paper ID V7I3-2054 · Pages 1822-1838 · Construction Engineering

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Glass Fiber Reinforced Gypsum (Gfrg) Wall Panel Is Made Essentially of Gypsum Plaster Reinforced With Glass Fiber. The Panels Are Hollow, In Conventional Building Brick Work Is Can Be Used To Load Bearing Walls And Gfrg Panels Can Be Used As Load Bearing Walls. They Are Light In Weight And Overall Cost Is Also Low As They Are Made From Recycled Industrial Waste Gypsum Which Is Obtained As a Byproduct From Various fertilizers Industries, Chopped Fibres Are The Main Filler Material Used Which Act As Reinforcement Instead Of Concrete To Reduce The Weight Of Brick. The Results Showed Promise, That The Gfrg Brick Was Efficient Than The Clay Brick. The Idea Of This Paper Is To Find A Use For This Waste Gypsum Into Something Useful.

Keywords: Gypsum, Glass Fibre, Reinforcement, Affordable

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374 Stock Forecasting and Analysis using LSTM and Prophet

Paper ID V7I3-1986 · Pages 1839-1844 · Computer Science Engineering

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Trading is tough. Part-time folks trading from their home are up against professionals. The professionals are really great at taking the money. Where there is potential reward, there is potential risk. The results equity curve might only show the reward side of the equation, but risk is always there. So it is a wise idea to implement Artificial intelligence and Machine learning technologies into this market which can disrupt the current scenario. In this study we use LSTM and PROPHET to predict the future stock prices. The forecast models are then compared to the actual data to measure their performance against each other. The result shows that Prophet generally outperforms LSTM.

Keywords: Stock Market, Stock Forecasting, LSTM, Prophet.

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375 Development of full custom realization of 2nd order decimator for arithmetic logic unit

Paper ID V7I3-1969 · Pages 1845-1853 · Digital Electronics

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This paper introduces Full custom and RTL implementation of a Decimated audio range low pass filter has been implemented on programmable logic devices (FPGA/PROM/CPLD) as well as layout compatible to 1.2-µm n-well

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CMOS process for arithmetic circuit. The ADC can be operated with an oversampling clock frequency of up to 512 KHz & down sampling clock frequency of up to 8 KHz. An existing clock divider circuit has been used which divide the oversampling clock frequency by decimated factor 64(second-order).

Keywords: Adder, Subtractor, Coder-1, Coder-2, Delay, Oversampling ratio, Decimated factor

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376 Design of Culvert using Suitable Software

Paper ID V7I3-1981 · Pages 1854-1859 · Structural Engineering

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At the time when required, there is a water canal or the natural stream which intersects the road or the carriageway width, the big problem for us is to know how to keep this stream of water flows away from the road so that the roadway should not get affected by such situations. And the vehicles which pass near that stream in the flood situations, should also not get affected by this natural disaster. So, looking at this purpose, the Culverts are must be constructed across these intersections. A Culvert is nothing but a structure that is designed for passing the water which is overflowing through the streams. In this research work, we discussed aspects of culverts required at the different locations. And the designs are done both manually as well as by taking the help of the design software. The Standard codes of the design of Bridges and Roads are used in this research work for compiling the design of the culvert part. Different software's are used for designing a culvert. From the results, for the design engineer, this research will offer to optimize saving of effort and also the time, by looking into effectiveness or accuracy.

Keywords: Stream, Culverts, Carriage way, Disaster

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377 Impact of a Pandemic on Indian Economy

Paper ID V7I3-2076 · Pages 1860-1876 · Economy

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In the following paper, we investigate the impact of a pandemic on the Indian Economy. The main focus of this study is to find out the economic impact in all the various sectors, which will help us in understanding the pandemic better, and how deep is the impact. This study considers various reports and concludes that despite the sluggish economic growth of India since 2019, the outbreak of COVID-19 has led to a further drop in the Economy. The nation has also been listed as among the top affected nations across the globe due to the pandemic. As a nation we've faced a lot of economic challenges due to pandemic breakout. It has majorly adverse sectors like food security, informal sector, agriculture, also aviation industry, shortage of labor for harvesting, PDS, and social security. This is a resultant of no proper infrastructural capacity to suffice a pandemic. Given our population, we have no resources to source functionality in the nation. Also, the health sector has also suffered a lot from the poor health facility, too costly checkups. The social life of the Indian

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people affected by the coronavirus includes the hike in Domestic Violence, Communalism, Fake news, and Religion.

Keywords: Pandemic, Covid-19, Indian Economy

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378 Breaking the Barriers: Making Unicorns Common

Paper ID V7I3-2053 · Pages 1877-1880 · Entrepreneurship

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In this constantly changing time, it is very important what all factors can lead to more disruptive innovation and the establishment of new ventures. It is necessary to research what is stopping individuals to enter into entrepreneurship. Due to high unemployment rates around the world, there is an immediate requirement to increase the labour force participation rate. Entrepreneurship is one big solution that can not only increase employment in current times but will also increase GDP in the long run. This will also present us with the opportunity to innovate in this constantly changing environment. This research paper discusses the misconceptions that act as barriers to entry in the start-up ecosystem and the role of government in breaking these barriers.

Keywords: Covid-19, Entrepreneurship, Innovation, Ventures, Start-ups

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379 Synthesis of nanostructured silver particles incorporated vein graphite for the anode material application in rechargeable lithium-ion batteries

Paper ID V7I3-1954 · Pages 1881-1886 · Materials For Lithium Ions Rechargeable Battery

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Rechargeable lithium-ion batteries have emerged as the dominant energy storage source due to their higher capacity, energy density and excellent cyclability. Graphitic materials are commonly utilized as the anode material for lithium-ion batteries. Silver nanoparticles incorporated vein graphite (SVG) materials were prepared for Li Ion Battery (LIB) applications. The graphite sample was purified by acid leaching, followed by modifying the surface with HNO3. The silver graphite composite material was synthesized using AgNO3 as the precursor and trisodium citrate as the reducing agent. Phase analysis revealed that the silver nanoparticles have been successfully incorporated into the surface of the modified graphite after chemical reduction and mechanical agitation. Half-cell testing was carried out using CR 2032 coin cells with silver vein graphite composite as the active material and 1 M LiPF6 (EC: DMC; vol. 1:1) as the electrolyte at the National Center for Advanced Battery Research in NIFS. Galvanostatic charge-discharge study of the cell with silver vein graphite composite showed an initial charge-discharge Coulombic efficiency of 88.3% and a promising discharge capacity of 373 mAh g-1 in the voltage range of 0.002 - 1.5V at C/10 rate. Overall, the electrochemical

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performance of our developed nanostructured silver particles incorporated vein graphite anode shows a noticeable improvement of the reversible capacity, Coulombic efficiency and cycling behaviour.

Keywords: Vein Graphite, Silver Nano Particles, Anode Material, Li-ion Rechargeable Batteries

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380 Smart medical package

Paper ID V7I3-1991 · Pages 1887-1890 · Printed Electronics

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The prime objective of this project is to create a smart package for medicines using the printed electronics technique which enables LED light to glow. Insulin's that are used in houses might not be stored under proper storing temperature. So a temperature sensing circuit is printed in the insulin package with a LED light glowing for indicating the improper storing temperature. When the user handles this package, it provides information about the storage temperature of the medicine. Screen printing technology is employed for circuit printing and digital printing for package printing. Silver conductive ink is used for circuit printing and components pasting. SMD (Surface Mount Device) components are used in the circuit. A smart package is developed to deliver the information exactly, thus making packages smarter will enable the users to grab the information easily and can be used in an effective way.

Keywords: Package Printing, Circuit Printing, Smart Package, Printed Electronics

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381 Design and analysis of robot for Industrial Application

Paper ID V7I3-2016 · Pages 1891-1897 · Mechanical Engineering

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Basically, robots are designed in such way that they remove human intervention from labour intensive and hazardous work environment, sometimes they are also used to explore inaccessible work places which are generally impossible to access by humans. The coating of internal pipes comes in same category because they carry toxic chemicals, fluids and most of the time has small internal diameter or bends which become

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inaccessible to human. The complex internal geometry and hazard content constraints of pipes demand robots for coating of such pipes to prevent corrosion level of pipe, recovery of usable parts from pipe interior, sampling of sludge and scale formation on pipe internal surface etc. Several designs of In-pipe coating robots (IPCR) have been proposed in the literature to solve the problems related with of these complicated coating of internal geometries. Designing of an in pipe coating robot (IPCR) is a difficult task and hence the designer must take care of the design issues like Mobility, Steer ability,, Size and shape adaptability, Online adaptability, Flexibility, Stability, Autonomous operation and obstacle avoidance, Efficiency at uneven surface, Safe operation, Material selection, Type of task to be performed inside the pipe, Number of actuators, Operation in active pipe line, Retrieval of robot, User friendly navigation and control system, Range of operation, Quantitative analysis of defects inside the pipe. Based on above, research work presents investigations into design issues pertaining to development of In-pipe coating robotics and proposes a new model of an In-pipe coating robot to overcome some critical design issues. This proposed model is a screw driver type wall press adaptable wheeled In-pipe coating robot. It can move through vertical, horizontal pipes and it can easily pass through elbow of a pipe.

Keywords: Internal Pipe Coating Robot (IPCR), Coating of internal pipes

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382 **Hazard Identification and Risk Assessment (HIRA) in Compressed Natural Gas (CNG) stations**

Paper ID V7I3-1994 · Pages 1898-1902 · Hazard Identification

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It is possible by the categorization of the estimated levels of Individual Risk (IR) which the proposed site would impose upon them. An analysis of the consequences and likelihood of credible accident scenarios coupled with acceptable risk criteria is then undertaken. According to the results in many cases, not only required distances have not been provided but also CNG stations are commonly located in vicinity of populated areas to facilitate refuelling operations. Natural gas is in priority because of the relative abundance, ease of use, less environmental pollution, and the price is cheaper than gasoline. This study was done to identify and determine the operational deviations in one of the CNG gas compressors and proposed hazard control measures. Identification of possible causes of deviations in compressor performance and risk assessment was done in several meeting with cast HAZOP experienced experts. Seven operational deviations identified in the performance of the compressor used in CNG station includes no & less flow, more & less pressure, presence of compounds other than gas in compressor, reverse flow and more temperature. 41.34% of the risks were in acceptable range, and 58.66% was in conditionally acceptable. Prepare work instructions, worker education, fix and maintenance and regularly equipment calibration can be useful in prevention of accidents in CNG stations.

Keywords: Individual Risk, CNG stations, HAZOP

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383 Ner Varmam and its Anatomical Structures -Literature review

Paper ID V7I3-2051 · Pages 1903-1906 · Indian Medicine

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Background: Varmam maruthuvam specifically deals with the regulation of energy flow within the body by provocation of certain points. Padu Varmam points are 12 in number. They are claimed to be interacting points between internal organs and the central nervous system. Hence Padu Varmam is considered as “Life Energy Centers”. The exact location, literature review and Anatomical Locations of these Varmam are yet to be documented. Objective: To identify the various literature evidence for the ner varmam (one of the padu varmam) andappropriate anatomical location of this Padu Varmam points and to document the above data. Methodology: Classical Siddha Literature like Varma Soothirangal by R.C. Mohan; Varma Vignanam by Dr. Michel etc.; and anatomy texts like Cunnigham’s book of practical anatomy, Netler’s Anatomy, etc.; were reviewed and the collected data was compared and documented. Results: The correct anatomical locations of the Padu Varmam points were more or less derived. The above data can be used for correct handling of Padu Varmam. This may be stepping stone for standardization of Padu Varmam.

Keywords: Siddha, Varmam, Padu Varmam, Ner Varmam Anatomical Locations, Literature Review

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384 Uniform Civil Code and its impact on social and cultural transformation in India – An Analysis

Paper ID V7I3-2082 · Pages 1907-1908 · Law

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Differences may be in any form say for in society, in language, in culture, in science, in technology, in law, etc. but altogether we joined in a single phenomenon is life existence. Even after attaining existence, we searched for the needs to be fulfilled at different levels. Then, our conscience naturally will search for the wants to attain the most extent possible. By narrowing down the wants and needs, it has become unique for every human and multiplied into thousands and millions of desires to fulfilled in a unique manner. Thus they formed different identities in culture and tradition. This inquiry made humans in searching the supernatural beings and started worshipping in their own way by practicing rites and rituals. This social and cultural transformation made the entire world get fragmented with a different ideology which made one accept only their own ideology and not accept the other ideologies. So, there is in need for the law to overrule these differences and to attain similarities to establish social order.

Keywords: Uniform Civil Code, Gender Justice, Personal Laws, Social and Cultural Transformation

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385 E-leave android application for employee leave management

Paper ID V7I3-2073 · Pages 1909-1911 · Computer Engineering

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The main objective of the proposed system is to decrease the paperwork, employees find it difficult to apply for leaves and vacations, especially those that have tasks that require a specific number of people to operate which is a very complicated process and to avoid the collision of dates with other employees under the same department. Proposed system will help in easier record keeping by having a centralized database system where data will be maintained. The system will keep the records, decrease paperwork and reduce chances of data loss. The system will allow employees and their managers to manage leaves and replacements for better scheduling of workload. Android E-Leave Application is an employee leave management system that keeps leave records of all the employees in organization. This system will provide a connection between the user and the database hence enabling quick retrieval of the leave information without any intervention from the human resource manager. In this system employees can apply for leave from their android smartphone and can also track the applied leave status in real-time.

Keywords: Android App Development API, Android Application, Mobile Application, ELMS, HRMS

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386 Crop yield predictor using machine learning for precision agriculture

Paper ID V7I3-2061 · Pages 1912-1994 · Engineering

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Predicts crop yield using temperature, moisture, nitrogen, phosphorous and other contents in the soil

Keywords: Crop Yield, Random Forest Algorithm, Precision Agriculture

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387 Pollution monitoring and controlling using Internet of Things (IoT)

Paper ID V7I3-1993 · Pages 1995-1998 · Pollution Monitoring

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The level of pollution has increased with times by IoT of factors like the increase in population, increased vehicle use, industrialization and urbanization which results in harmful effects on human well-being by directly affecting health of population exposed to it. In order to monitor quality of air, water quality and sound level of the environment over IoT based new framework is proposed which is based on data acquisition, transmission and controlling.

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Keywords: IoT, Pollution, Sound level, Water quality

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388 A survey on docker container and its use cases

Paper ID V7I3-2052 · Pages 1999-2002 · Docker

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Docker is an open platform for rapidly building, delivering, and executing a variety of applications. It allows for faster software delivery by separating applications from infrastructure. Docker techniques encourage rapid shipping, testing, and deployment of code anywhere, reducing the time between code development and production deployment. It assists both developers and system administrators by letting developers write code without having to worry about the system on which it will eventually run. It also can minimize the number of systems and provide operations workers more flexibility. The principles of Docker containers are discussed in this paper and recent research on the subject. The document also contains significant use cases, as well as the pros and challenges of using it.

Keywords: Docker, Container, Virtual Machine, Docker Image, Docker use case, Docker techniques

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389 3-Dimensional visualization and animation of a construction schedule of a single storey building – 2021

Paper ID V7I3-2044 · Pages 2003-2008 · Civil Engineering

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Construction sector needs proper scheduling, planning and management procedure for any project which leads to improve the general optimization of the time, cost and resources. The planner utilizes the 2- dimensional drafting tools and follows the contents of the illustrations with respect to exercises of the construction schedule for which Primavera and Microsoft Project for the scheduling process and AutoCAD for drafting plan and to visualize ,decision making of various construction activities are used .It involves multi environment for managing construction activities and time consuming too which in turn affect in clarifying the status of the project to the customer making it exceptionally tedious and troublesome. With this process the customer and store manager will not have the idea of the specialized terms used in the graphical representation and schedule .Thus the construction company necessitates an implement which can impact the 3 dimensional components and the schedule in particular individual environment from multi environment .Majority of

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commercial software's used to generate a 4-Dimensional model but they don't have the important functions like creation and modification of the created model in a single environment. Apart from using trivial methods of project schedule sheets and manual drawings , one can combine both in a single environment to generate the 4-Dimensional model in the GIS software. The objective of the current study was to create 4D model (3D geospatial model + time component) in a single platform using GIS for single storey residential building. The dynamic linkage between the drawings and respective scheduled activities in the GIS software helps in visualizing construction sequence and identifying logical errors that can occur in schedule. The proposed GIS based methodology can be used as replacement to many trivial manual techniques to take out the data from the accessible database and can easily maintain and modify majority of the information in the digital format.

Keywords: GIS, Planning and Scheduling, 4D model, Construction industry

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390 Urban underground drainage monitoring system using IoT

Paper ID V7I3-1968 · Pages 2009-2015 · Iot

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The additional volume of wastewater entering the pipes, can cause backups which can lead to the sewer system to overflow. The Monitoring of urban underground infrastructure, it is important to control the current flow from the external water is in the pipe line. By wireless to connect underground communication, and sensor solutions, you can follow the development of the urban underground IoT applications, such as for the monitoring of wastewater and stormwater overflow in real-time with the help of Flow sensors with respect to Arduino and NodeMCU. This paper presents an analysis of the loss of a wireless underground utility services in the urban underground IoT for waste water monitoring and control. It is shown that the communication range is4 km away and can be reached from an underground channel of communication by means of a 10 cm-thick layer of asphalt. The urban waste water and is responsible for the collection and the treatment of wastewater in the waste water treatment plants, treatment of the many millions of litres of water per day. Cities and towns in the need for the monitoring of the quantity and quality of wastewater discharged into the system the collection and the achievement of these structures. The volume of water in the pipes and could cause back-ups, which in turn can lead to sewer overflows.

Keywords: Drainage and Sewage Monitoring System, Node MCU, Arduino

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391 An efficient optimized multi-kernel support vector machine-based brain tumor classification and segmentation in MRI

Paper ID V7I3-2103 · Pages 2016-2018 · Computer Science Engineering

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Magnetic resonance (MR) imaging has been playing a vital role in neuroscience research to examine brain conditions related to normal and abnormal brain structures and functions in vivo. In previous years, MRI is observed to play an important role in brain abnormalities research in determining the size and location of affected tissues. MRI Image segmentation and classification refers to a process of assigning labels to a set of pixels or multiple regions. It plays a major role in the field of biomedical applications as it is widely used by radiologists to segment the medical images input into meaningful regions. Thus, various segmentation techniques in medical imaging depending on the region of interest had been proposed. Medical image segmentation problems have been approached with several solution methods by different ranges of applicability such as Region Growing, Self-Organizing Map (SOM), and Fuzzy c-Means (FCM). Some recent progress has been made to create semi-supervised (based on user interaction) or supervised variational methods. In the last decades, many methods have been proposed to segment the brain tumor of MR images, such as neural networks, finite Gaussian mixture model, knowledge-based methods, atlas-based method, active contour model, level set methods, and outlier detection. However, the segmentation of medical imagery remains a challenging problem due to the complexity of the images. Brain tissue is a particularly complex structure and its segmentation is an important step for studies in temporal change detection of morphology. The success of MRI in the detection of brain pathologies is very encouraging. However, diagnosis and locations of abnormality are made manually by radiologists. It consumes valuable human resources, is error sensitive, and makes it prone to error.

Keywords: MRI, CT Scan, Fuzzy C-Means, Image Segmentation and Classification, Feature Extraction and Selection

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392 Credit card fraud identification using machine learning

Paper ID V7I3-2083 · Pages 2019-2023 · Machine Learing

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Today technology is increasing at a very rapid pace, which can be used for good as well as for bad purposes. So with this growing technology e-commerce and online transactions grew up which mostly contain transactions through credit cards. Credit cards help People to enjoy buy now and pay later for both online and offline purchases. It provides cashless shopping at every shop in all countries. As the usage of credit cards is increasing more, the chances of credit card frauds are also increasing dramatically. The credit card system is most vulnerable to frauds. These credit card frauds cost financial companies and consumers a very huge amount of money annually, fraudsters always try to find new methods and tricks to commit these illegal and

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outlaw actions. Online transaction fraud detection is the most challenging issue for banks and financial companies. So it is much essential for banks and financial companies to have efficient fraud detection systems to reduce their losses due to these credit card fraud transactions. Various approaches have been found by many researchers to date to detect these frauds and to reduce them. Comparison of Local Outlier Factor and Isolation Factor algorithms using python and their detailed experimental results are proposed in this paper. After the analysis of the dataset, we got an accuracy of 97% by the Local Outlier Factor and 76% by Isolation Forest.

Keywords: Fraud Detection, Local Outlier Factor, Credit Card, Dataset

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393 The injustice and oppression in Mulk Raj Anand’s Novel- Untouchable

Paper ID V7I3-2002 · Pages 2024-2025 · Literature

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Problem of untouchabilty is still prevalent in the society and Mulk Raj Anand through his novel Untouchable brings to light the sorrows and sufferings that high caste Hindus inflicted on the untouchables. Mulk Raj Anand's Untouchable, is more compact than his other novels. Mulk Raj Anand has a special place in Indian literature in English. He is a committed writer, a novelist with the purpose. His purpose is to throw light on the sufferings, misery, despair, wretchedness of the poor, which result from the exploitation of the downtrodden by the caste Hindus and capitalists. Through his art, he has rendered valuable service by highlighting the plight of the underprivileged class of the Indian society, by enlisting our sympathy for them and thereby paving the way for social reform. His themes and linguistic experiments have carved out a special niche for himself in the Indian social and cultural field. They are unique in their depiction of the exploitation of the poor and the downtrodden in the Indian society. The central characters in the novels are socially segregated, humiliated, physically and psychologically exploited by the caste and class ridden society. Anand's focus on the untouchables, coolies, plantation labourers, workers in the factories, destitute, and the neglected show his humanitarian nature, true love and compassion leading to social justice and freedom. The novel Untouchable, published in 1935, centres around a sweeper boy, Bakha. The eighteen year boy Bakha, son of Lakha, the jamadar of sweepers is a child of the twentieth century, and the impact of new influences reverberates within him. Keywords: Mulk Raj Anand, Untouchable, underprivileged, humanitarian, downtrodden, exploited, justice

Keywords: Mulk Raj Anand, Untouchable, Underprivileged, Humanitarian, Downtrodden, Exploited, Justice

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Design and Analysis of selective components of the roving machine

Paper ID V7I3-2062 · Pages 2026-2029 · Mechanical

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There are numbers of parts in Roving Machine some of them are Aprons (top and bottom), Spacer, Condenser, Flyer. In this report, we have analyzed the functions of this component and designing of a roving machine. The effect of process variables like:-lap hank, card draft, draft/doublings, and drafts at speed frame, ring frame, rotor, and air-jet spinning machine on packing density parameters of respective technology yarn was Analyzed The effect of noise variables were also accounted for. The trends of change in packing density with process variables are opposite to those of yarn diameter and helix angle of the ring, rotor, and air-jet yarns studied. The packing density is found to be the highest in air-jet yarn and the lowest in rotor yarn. An increase in the draft in air-jet spinner and decrease in rotor spinner increase packing density of the respective yarns. The change in noise variables does affect the packing density parameters of yarns.

Keywords: Yarn Production, Yarn Manufacturing Department

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GEVAS: GPS based emergency vehicle detection system

Paper ID V7I3-2101 · Pages 2030-2035 · Communication

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Emergency vehicles being stuck in traffic jams and various kinds of accidents caused due to speeding first response vehicles has become a very common scene in our country lately. The increased traffic congestion and underdeveloped roads along with the poor traffic regulation system have resulted in emergency vehicles like ambulances not reaching their required destination in time. So, the idea emphasizes mainly enabling emergency vehicles to reach their required destination safe and smooth within the least possible time on any road traffic conditions. This could be implemented by developing a GPS based device which notifies all other vehicles so that they can move out of the way in advance avoiding accidents and unnecessary traffic jams and clearing path for the emergency vehicle. The notification is either visual/sound based and the system is placed inside every vehicle so that the alert precedes the conventional siren alert system.

Keywords: Emergency Vehicle, GPS, NRF, Server, Notifier, Range, Location, Alert

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396 **Emerging Trends in Films in Creating Eco awareness among People**

Paper ID V7I3-2093 · Pages 2036-2039 · Department Of Languages

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Movies have become an integral part of human life, from telling stories to emphasizing rituals, culture, and history, having mentioned that cinemas are milestones when an awareness quotient comes into the picture. Films are the most impactful channel to spread the news as they have both audio and video content which would help to bring a massive response from a larger audience. A film is therefore a wonderful and most effective medium to create an eco-awareness among all walks of people in society. As we are already facing depletion in the ozone layer, global warming and environmental problems like acid rain, air pollution, water pollution, etc. can affect every human, animal, and nation on this planet. The researchers strongly believe that cinemas, web series, documentaries, etc. play a vital role in awareness creation among people. The current comprehensive research study says that the impact is more when it comes to cinema as compared to other mediums. The present research work is focusing on the following objectives like (i) analyze the impact of movies in creating eco-awareness, (ii) doing a comparative analysis of the impact of the movies created, (iii) suggesting policies that can enhance the effects of movies on the respective theme. Three movies from the International and three movies from the Indian Film Industry are chosen for the study. The research is conducted on the basis of reviews from IMDB (Internet movie database). The study shows that the movies under review had a positive effect on society in creating eco-awareness. According to current research, it can be said that movies play a crucial role in creating eco-awareness.

Keywords: Cinemas, Eco-Awareness, Effect, Research, Medium

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397 **Effect of process parameters on production of biogas from food waste**

Paper ID V7I3-2105 · Pages 2040-2043 · Waste Management

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In a world filled with exhausting fuels, biogas production could be a key technology within the development of sustainable energy supply systems that aims to cover the energy demand using renewable sources and to mitigate greenhouse gas emissions. Biogas production can be achieved through anaerobic digestion (AD), a biological process. Anaerobic digestion is taken into account to be a useful tool that can generate renewable energy and significant research interest. This renewable biofuel can play an important role in decreasing the concerns related to a rapid increase in energy demands and also the greenhouse emission emissions. A unique advantage of this renewable energy production is it uses anaerobic digestion of various organic wastes including food waste. Food wastes have a high potential for biomethane production because it has high organic matter contents. This work intends to present an overview of the effect of process parameters in an anaerobic digester for biogas production. This study is to make an organic processing facility to form biogas that can be more cost-effective, eco-friendly, cut down on landfill waste, generate a high-quality renewable fuel, and

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reduce carbon dioxide and methane emissions and also, the parameters which affect or influence this process.

Keywords: Biogas, Food Waste, Anaerobic Digestion

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398 Dominator coloring of certain graphs

Paper ID V7I3-2055 · Pages 2044-2049 · Graph Theory

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A graph has a dominator coloring if it has a proper coloring in which each vertex of the graph dominates every vertex of some color class. The dominator chromatic number is the minimum number of colors required for a dominator coloring of G. In this paper the dominator chromatic number for comb graph, jewel graph, flower graph is studied and also the dominator coloring of coronagraph of path with triangular snake graph and double triangular snake graph is studied.

Keywords: Comb Graph, Flower Graph, Jewel Graph, Corona Product Graph, Dominator Coloring, Dominator Chromatic Number

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399 Knowledge, attitude, and practices associated with covid-19 among undergraduate NCC cadets of Tripura, india

Paper ID V7I3-2107 · Pages 2050-2053 · Medical Science And Human Physiology

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COVID-19 is a pandemic that has taken over the entire world and its Knowledge Attitude and Practices (KAP) is important for NCC cadets in order to be well-versed future social workers. This work is carried out to evaluate the adequacy of knowledge of NCC cadets to deal with the ongoing pandemic and their attitudes and practices or roles towards the prevention and control of the pandemic. National Cadet Corps has offered its volunteer cadets for national duty to fight COVID-19. The Exercise has been codenamed ‘Ex NCC Yogdan’ and guidelines for temporary employment of the cadets have already been issued as per the direction of the Ministry of Defence. Methods: A KAP study was conducted in the Undergraduate NCC cadets of Tripura. A questionnaire was sent via Google forms through social media platforms to the participants. Statistical analysis was done by ANOVA, student t-test. Results: The mean ± SD scores attained for knowledge, attitude, and practices were 7.47±1.23, 16.80±2.50. The scores attained by different age groups, semesters, and genders were comparable. The knowledge of the students in regard to main symptoms (99.8.%), mode of spread (92.83%), time taken for the manifestation of the disease (98.15%), and precautions to prevent the spread of the virus (99.02%) is satisfactory. 88% of the students are confident about being able to take care of symptoms. 82% of students are positive about working as frontline workers. Conclusions: Positive attitude and practices are seen

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in NCC cadets of Tripura, the knowledge is adequate and they can be a vital asset to spreading awareness about COVID-19.

Keywords: Attitude, COVID-19, Knowledge, NCC Cadets

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400 Automated wastewater management using Arduino

Paper ID V7I3-2110 · Pages 2054-2056 · Computer Engineering

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Water scarcity is one of the major problems facing major cities of the world and wastage during transmission has been identified as a major culprit. This is one of the motivations for this research, to deploy computing techniques in creating a barrier to wastage in order to not only provide more financial gains and energy saving but also help the environment and water cycle which in turn ensures that we save water for our future. We presented our research in embedding a control system into an automatic water pump controller through the use of different technologies in its design, development, and implementation. The system used ARDUINO to automate the process of water pumping in an overhead tank storage system and has the ability to detect the level of water in a tank, switch on/off the pump accordingly, and display the status on an LCD screen. This research has successfully provided an improvement on existing water level controllers by its use.

Keywords: Arduino, Float Sensors, GSM Module, Water level, Pump

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401 The PICC-related complication in Hemato-Oncological patients for the administration of chemotherapeutic drugs

Paper ID V7I3-1931 · Pages 2057-2060 · Nursing

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Background Majority of malignant diseases require therapy with chemotherapeutic agents for medium to long term time duration. Duration, feasibility and ease of placement, comfort, and rate of complications in patients are of utmost importance in choosing the type of catheter placement. In light of this peripherally inserted central venous catheters (PICC) have added advantage over conventional central venous catheters. The aim of this study was to evaluate the rate of infection related to PICC, the duration and outcome of PICC in oncological patients. Patients and Methods: A longitudinal study was conducted to look at the PICC (Peripherally Inserted Central Catheter)-related complication rates which occurred in inpatient and outpatient settings on patients who had a PICC line inserted for the administration of chemotherapeutic drugs, between 2015 to 2019, a period

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of five years. A total of 865 patients with PICC lines were analyzed. Pertinent patient demographics, as well as catheter-related factors, were collected. The data was analyzed by using excel and the association between duration and complication is compared using the chi-square test. $p<0.05$ is considered as significant.to identify catheter-related complications and the outcome of the PICC line in relation to the removal of the line. The Retrospective data analyzed so waiver of consent is taken on the day of PICC line insertion and the institutional ethical clearance has been taken for this study. As the data is taken retrospectively from the patient records with anonymity being maintained, no actual consent is required in this study. Approval from the hospital ethical committee got. Also during PICC insertion, informed consent is taken from all subjects. Results:s The PICCs placed for 865 patients, each between the duration of 3 months to 6 months was analyzed. The most suitable vein for the insertion was the basilic vein (85%). Conclusions: Our study suggests, PICC is an excellent option for various diagnostic and therapeutic interventions and offers clinicians and nurses a safe and effective option for central access. The data of this study shows PICC to be more cost-effective in terms of longer duration of use and have lower complication rates than the conventional CICCs and hence has to be promoted more in patients for chemotherapy drug administration.

Keywords: Peripherally Inserted Central Venous Catheter, Malignancy, Catheter-Related Complication, Duration

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402 A study on analyzing fake news through Neural Network Models

Paper ID V7I3-2041 · Pages 2061-2063 · Nlp And Neural Network

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Fake news is defined as a made-up story with an intention to deceive or to mislead. In this paper we present the solution to the task of fake news detection by using Deep Learning architectures. Gartner research [1] predicts that “By 2022, most people in mature economies will consume more false information than true information”. The exponential increase in production and distribution of inaccurate news presents an immediate need for automatically tagging and detecting such twisted news articles. However, automated detection of fake news is a hard task to accomplish as it requires the model to understand nuances in natural language. Moreover, majority of the existing fake news detection models treat the problem at hand as a binary classification task, which limits model’s ability to understand how related or unrelated the reported news is when compared to the real news. To address these gaps, we present neural network architecture to accurately predict the stance between a given pair of headline and article body. Our model outperforms existing model architectures by 2.5% and we are able to achieve an accuracy of 94.21% on test data.

Keywords: Deep Learning, Natural Language, Detection Models, predict, binary

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403 **A review on Deep Learning for content-based image retrieval**

Paper ID V7I3-2050 · Pages 2064-2066 · Image Processing

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Learning effective feature representations and similarity measures are crucial to the retrieval performance of a content-based image retrieval (CBIR) system. Despite extensive research efforts for decades, it remains one of the most challenging open problems that considerably hinders the successes of real-world CBIR systems. The key challenge has been attributed to the well-known “semantic gap” issue that exists between low-level image pixels captured by machines and high-level semantic concepts perceived by human. Among various techniques, machine learning has been actively investigated as a possible direction to bridge the semantic gap in the long term. Inspired by recent successes of deep learning techniques for computer vision and other applications, in this paper, we attempt to address an open problem: if deep learning is a hope for bridging the semantic gap in CBIR and how much improvements in CBIR tasks can be achieved by exploring the state-of-the-art deep learning techniques for learning feature representations and similarity measures. Specifically, we investigate a framework of deep learning with application to CBIR tasks with an extensive set of empirical studies by examining a state-of-the-art deep learning method (Convolution Neural Networks) for CBIR tasks under varied settings. From our empirical studies, we find some encouraging results and summarize some important insights for future research.

Keywords: Deep Learning, Content-Based Image Retrieval, convolution Neural Networks, Feature Representation

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404 **Network intrusion detection system**

Paper ID V7I3-2102 · Pages 2067-2070 · Information Science Engineering

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With the fast development of PC utilization and PC network, the security of the PC framework has turned out to be very significant. Businesses are looking for consistently new sorts of assaults. As the danger turns into a genuine chapter year by year, interruption discovery advancements are essential for organization and PC security. An assortment of interruption recognition approaches be available to determine this severe condition; in any case, the fundamental problem is execution. It is imperative to increment the discovery rates and lessen bogus alert rates in the space of interruption recognition. To recognize the interruption, different methodologies have been created and proposed over the most recent decade. This paper effectively compares the accuracy of different classification algorithms, like algorithms like Support Vector Machine (SVM), Naive Bayes, KNN, Decision Tree[15]. This study aims to perform a comparative analysis of these different machine learning algorithms on datasets available to predict which model best suits intrusion detection.

Keywords: Intrusion Detection, Classification, Alert Rates, Interruption, Accuracy, SVM, KNN, Decision Tree, Naïve Bayes

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405 An authentication & data sharing of the medical report using blockchain security

Paper ID V7I3-2116 · Pages 2071-2073 · Computer Science And Engineering

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The health care services industry is always showing payments. Blockchain 2.0 focused on decentralizing the entire market and is employed to transform assets through smart signs of change and supporting new advancements and advances. One of the predominant requirements in today's health care systems is to protect the patient's medical report against potential attackers. Hence, it is basic to have secure information that can just approve people can get to the patient's medical report. So, we have proposed Blockchain technology as a disbursed approach to grant security in accessing the medical report of a patient. It's composed of three phases Authentication, Encryption, and Data Retrieval using BlockChain technology. For authentication – Quantum Cryptography, for Encryption – AES, and for Data Retrieval– SHA algorithms are used to resist the frequent attacks. This proposed framework may likewise ensure the protection of the patients and moreover keeps up the security and trustworthiness of the health care system.

Keywords: Blockchain, Medical Report Data Accessibility, Security, Privacy, Authentication, Encryption, Data Retrieval.

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406 High-speed download cost-effective version control compression on cloud

Paper ID V7I3-2117 · Pages 2074-2082 · Information Technolgy Engineering

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Traditional techniques for image retrieval are not supported for the ever-expansive image database. These downsides can be removed by utilizing contents of the image for image retrieval. This sort of image retrieval can be accomplished with the help of cross batch redundancy detection (CBRD). When the cross batch redundancy detection (CBRD) is combinedly work with Bandwidth Energy Efficient sharing (BEES) has very precise result other than any commonly known feature detector or traditional method that are usually utilized in vision programming. In this paper we mainly focus in texture, colour ,shape and resolution of an image matching with superior accuracy and we also review some of the futuristic tool developed on CBRD

Keywords: SSIM - Structural Similarity Metric, VIF - Visual Information Fidelity, HVS - Human Visual System, NSS - Natural Scene Statistics, CBRD - Cross Batch Redundancy Detection, MSE - Mean-Squared Error, FSRISA - Feature-Based Sparse Representation For Image Similarity Assessment, PSNR - Peak signal-to-Matching Ratio, GUI - graphical user interface, CBIR - Content-Based Image Retrieval, IDE - Integrated Development Environment

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407 Four-wheel steering mechanism

Paper ID V7I3-2004 · Pages 2083-2085 · Mechanical Engineering

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Nowadays most of the vehicle using two-wheel steering mechanism as the main handling system. But the efficiency of the two wheels steering vehicle is proven to be low as compared to the four-wheel steering vehicle Four-wheel steering can be adopted to increase the steering response, increase vehicle stability at a certain speed to decrease the turning radius. If a car could automatically compensate for an understeer/oversteer problem, the driver would enjoy nearly neutral steering under varying operating conditions. Four-wheel is a serious effort on the part of automotive design engineers to provide near-neutral steering. Also in situations like low-speed cornering, vehicle paring, and driving in city conditions with heavy traffic in tight spaces, driving would be very difficult due to the vehicle’s large wheelbase and track width. Hence there is a requirement of the mechanism which results in less turning radius and it can be achieved by implementing four-wheel mechanisms. Instead of regular two-wheel steering.

Keywords: Four-Wheel Steering Mechanism, Four Wheel Steering at Different Speed

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408 Smart trash picking vehicle for waste management

Paper ID V7I3-2124 · Pages 2086-2087 · Electrical

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This project aims to design an Automatic trash picking vehicle and is done without human intervention. Garbage collection and management is a large issue undergoing extensive research, and solutions are being proposed accurately. Thanks to an exponential rise in population, there is an increased production of waste, and also a significant amount of litter consisting of plastic, medical waste, paper, and other waste materials are thrown out and dispersed in public. Thus, the need for a most effective waste management strategy is essential. In this project an automated system is provided for segregating types of wastes as biodegradable, non-biodegradable, and metallic wastes. The project is built in such a way that, when it is started it will move on the path defined in the program. When it encounters the obstacle, depending on the conditions applied in the program the robot proceeds with further motion and then robot picks up the garbage. Once it senses the color of trash using color sensor, these sensed values are given to the Arduino UNO, and thus based on the inputs from the controller the system will operate and through the operation of various drivers used it will pick up the trash with robotic arm and thus segregation of wastes into Bio-degradable, Nonbiodegradable can be done by dropping waste into the respective bins. Once the bin gets filled the user will get notified.

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Keywords: Color Sensor, Trash, Segregation, Garbage Collector, Arduino, Motor drivers

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409 Student advisory system

Paper ID V7I3-2125 · Pages 2088-2093 · Engineering

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The student advisory system aims at analyzing the student educational data and acts as an advisory system to undergraduate students who are confused about which career path to choose . It provides them with multiple options based on their characteristics and helps them make the career decision wisely.

Keywords: Eclat Algorithm, Support Count, Confidence, Association Rules

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410 The Data mining technique in the prediction of diabetic retinopathy for community

Paper ID V7I3-2119 · Pages 2094-2096 · Data Mining And Analysis

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The retinal malfunctioning caused during diabetes is popularly known as Diabetes retinopathy (DR) which is a severe disease of the retina and is emerging as a threat cause of less sightedness in the world. Eye using optical coherence tomography (OCT), and photographs of the fundus and for appraise of the thickness and the structure of the retina, furthermore for the discernment of edema, bleeding, and scarring. Deep learning models are particularly used for the analysis of OCT images, or fundus images, extraction of features that are unique to each period of study. and, in ramification, the classification of the images, and the stage of the disease. During this work, it is deep the neural network (CNN), with 24 convolutional layers and 4 fully-connected layers for the analysis of fundus images, and to distinguish between the control, moderate degree (i.e., a coalescence of mild and moderate Non-proliferative (D (NPDR) and severe degree (i.e., a group of severe NPDR, and keeps the DR (PDR)) the validation of the precision and accuracy of 88% -89%, a sensitivity of 87% - 89%, and a specificity of 94% to 95% and the quadratic weighted Kappa scores of 0.91–0.92, with a 5-fold and 10-fold cross-validation methods, respectively. The last preprocessing phase has been carried out for both the class-specific image size and the data on the growth rate were to be applied. The proposed approach is significantly more accurate in the objective diagnosis and classification of diabetic retinopathy, which eliminates the need for retinal imaging and extends access to the retina, or treatment. This technology allows for early diagnosis, as well as the purpose of the monitoring of the progression of the disease, which may help in the optimization of medical therapy in order to denigrate the loss of visual function.

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Keywords: Convolutional Neural Network, Keras, Pandas, Sklearn

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411 Local Navigation Application

Paper ID V7I3-2074 · Pages 2097-2101 · Security System And Smart City

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This paper is aimed towards providing an easy access to locations around the college area especially useful to students moving to the city from elsewhere. Taking into consideration, the wide- spread use of cell-phones the project has been designed in the form of an application. The application created is designed with taking into consideration the immediate needs of the students. The application works in co-ordination with Google Maps and provides location access. The application also provides useful information regarding the locations. This paper provides the summary of the process of creation of this project.

Keywords: Android OS, API key, JAVA, Location, Navigation, SDK

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412 Civil society in the context of Arab world: Conceptual Understanding

Paper ID V7I3-2015 · Pages 2102-2108 · Political Science

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Civil society is one of the most contested, ominous, and ambiguous concepts in social sciences. It is contested because it means many things to different intellectuals at the same time. Because of different and even contested views, the notion of civil society has become ambiguous. As a result, it is difficult to attain a united and an integrated understanding of civil society. One of the problems surrounded the analysis of civil society is to adopt universalist view and supposing that civil society “should” have similar features in all contexts. International agencies deal with civil society in developing countries as a metaphor of west. However, developing countries, such as Arab states has different historical trajectories of the civil society developments. In contrast to the universalist understanding of civil society, there is a contextual perception, according to which civil society is embedded in a meaningful mixture of political, social, and historical place. In other words, civil society is embedded in a context. Contextual understanding supposes the heterogeneity of the concerned phenomenon. Studying civil society in this paper adopts contextual understanding to conceptualize civil society in the Arab world. Key words: civil society, context.

Keywords: Civil society, Context

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413 Data Science to design sports attire for better individual performance

Paper ID V7I3-2130 · Pages 2109-2112 · Computer Engineering

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A player's performance depends on a lot of factors. His personality, environment, playing style, teammates. Is luck one of those factors? Managers and Club Directors cannot change a player's personality, no matter how much they throw money for it. What they can do is provide Sporting Attires, Playing Positions, and Training Equipment that the players want. Now in a world where Social Media is ruling, every player wants to look good while also playing well, to take their own personal brands forward. So can there be a way where Clubs can analyze the Sentiments of each player in their squad according to the different styles of Jerseys that they play in? This paper gives a solution where we analyze the Sentiments of Players and their Performances in a particular style or design of Jersey, and give jerseys perfect for the whole squad to perform better.

Keywords: Sports, Sentiment, Data Analysis, Machine Learning, Jersey, Design, Computer Engineering

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414 Role of IoT in COVID-19

Paper ID V7I3-2135 · Pages 2113-2115 · Computer Science

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The COVID-19 pandemic provided a needed sanity check for IoT-inspired frameworks and solutions. IoT solutions like remote health monitoring and make contact with tracing provided support for authorities to successfully manage the spread of the coronavirus. This article provides the first comprehensive review of key IoT solutions that impact COVID-19 in healthcare, contact tracing, and transportation during the pandemic. Each sector is investigated in-depth; and potential applications, social and economic impact, and barriers for mass adaptation are discussed intimately. It elaborates on the challenges and opportunities for IoT framework solutions within the immediate post-COVID-19 era. To this end, privacy and security concerns of IoT applications are analyzed in-depth and emerging standards and codes of practices for mass adaptation are discussed. The main contribution of this review paper is the in-depth analysis and categorization of sector-wise IoT technologies, which have the potential to be prominent applications within the new normal. IoT applications in each selected sector are rated for their potential economic and social impact, the timeline for mass adaptation, and Technology Readiness Level (TRL). In addition, this article outlines potential research directions for next-generation IoT applications that would improve performance with preserved privacy and security and wider adaptation by the population.

Keywords: Internet of Things, COVID-19, Global Pandemic, IoT Solutions, IoT Privacy, and Security Challenges, IoT Applications

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In vivo bioactivity– Guided isolation of antiasthmatic fraction of Celosia argentae Linn. leaves in rodents

Paper ID V7I3-2042 · Pages 2116-2124 · Asthma

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Background: Celosia argentea is leafy herb commonly known as quail grass, feather cockscomb, and Lagos spinach belongs to the family Amaranthaceae. The Celosia argentea has great medicinal value, used in the treatment of fatigue, leucorrhoea, atherosclerosis and osteoporosis and the seeds have been used for reducing the “liver heat”, improving the eye sight, clearing wind heat and as an anti- inflammatory agent. In present study the flavonoids fraction from alcoholic extract of Celosia argentea was investigated for its anti-asthmatic potential by in vitro and in vivo techniques. Phytochemical evaluation detected methanolic fraction to be enriched in flavonoids. Hence, methanolic fraction was concentrated and loaded on a column of Sephadex using a step gradient of chloroform: methanol mixture (95:5, 90:10, 80:20,....100:0). The first fraction 95:5 gave distinct single band with the selected solvent system were further purified on HPLC column of MCI HP20. Fraction was collected using an automatic fraction collector and monitored by HPLC. Chromatographically pure compound were pooled, concentrated, and freeze-dried. Then the isolated compound was screened for antiasthmatic activity in rodents. Data were analyzed using ANOVA at $p \leq 0.05$. Results: Isolated compound from celosia argentea (10mg/kg) significantly reduces paw volume at dose 10 mg/kg showed (0.180±0.005**) reduction of paw volume was comparable to standard drug Dexamethasone (0.160±0.005**).Also it significantly protect degranulation of mast cell at dose (10mg/kg) it gives 63.6% and Ketotifen fumarate at dose (1mg/kg, p.o.) gives 74.1% protection to mast cells. In case of histamine induced contraction in goat tracheal chain at concentration 30 µg/ml isolated compound of celosia argentea at 10µg/ml significantly inhibited the tracheal contraction which was compared with Chlorphenaramine maleate (1 µg/ml). This indicates that there was competitive antagonism between histamine and isolated compound of celosia argentea for H1 receptors present on the smooth muscle. Conclusion: The result indicates the isolated bioactive fraction of Celosia argentea responsible for its antiasthmatic effect which may be produce due to presence of quercetin flavonoid.

Keywords: Anti-Asthmatic Activity, Celosia Argentea, Flavonoid Fraction

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416 Intelligent wireless notice board

Paper ID V7I3-2134 · Pages 2125-2127 · Electrical

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It is a process of information exchange, it is precisely this aspect of the technology, which plays an important role in all forms of commercial activity, or the organization of the subject. Currently, all companies have to have or advertising to promote their products and services to you. Digital advertising is the dire need of the modern business, and, in the digital world. The drop indicator of the non-matrix displays can be used at international airports, markets, subway stations and shopping malls. Bus, drive, and so on. The LED display is the best and most efficient mode, and the display of the data, but the problem is, the message is dynamic, if the user changes the content of the message, in order to meet specific requirements. In the event of a change in the text of the message and connect to the LED display to the computer in such a way that the screen is on, the control board may not be placed anywhere else, due to the complex circuitry. The goal of this project is to develop a wireless, scrolling for your message board, which allows the user to gain access to the content of the message may not have access to the display of the matrix, a computer, or a laptop computer. It is up to the user to update the content of the message, via Bluetooth or Wi-Fi access is available.

Keywords: Bluetooth, Wi-Fi, Arduino, IoT, Application Software

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417 Here expert map community program-product portfolio operations and spatial solutions

Paper ID V7I3-2138 · Pages 2128-2129 · Here Map Community

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HERE Maps are used by millions worldwide through mobile apps, social networks and in cars equipped with a navigation system. With HERE Map Creator, you can edit your own real-life experience of your surroundings directly into HERE Maps. You can add or update roads, routes, places and house numbers to bring accuracy and context to the digital world. To use the HERE map creator , firstly create an account. After signing in with the account, now you can start exploring various geographical locations and can update missing or incorrect information. To ensure the accuracy and quality of HERE maps, all the community content is verified by HERE's Geo-analyst before it gets updated and integrated into HERE maps. Study the HERE Map Creator Tool and find out and add the missing roads, places on it. Maps represent the real world on a much smaller scale. They help you travel from one location to another. They help you organize information. They help you figure out where you are and how to get where you want to go. Maps are an important part of our everyday lives. We use them

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for driving directions, to look up restaurants, stores and many more places. We covered two sections in it. First section summarizes about learning and accessing of the tool and the other section focuses on the background and purpose of the duties that were assigned to us which particularly included adding missing roads, POIs and PA. Further after we have to study about the Electric Vehicle (EV) and its features and provide the solution how HERE maps gains the opportunity to innovate and leave it's prints in molding the drawbacks of EV.

Keywords: POI, PA, API

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418 Chemical and pharmacological evolution of some synthesized Chalcones and Hetrocyclic compounds

Paper ID V7I3-2066 · Pages 2130-2172 · Pharmaceutical Chemistry

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Pharmaceutical chemistry is focused on quality aspects of medicines and aims to assure fitness for the purpose of medicinal products. With centuries medicinal chemistry had emerged as a magnanimous field of science getting a facelift from the available natural compounds for synthesis of newer and complex molecules possessing medicinal activity while the transit from the earth to a synthetically furnished laboratory. Medicinal chemistry or pharmaceutical chemistry is a discipline at the intersection of chemistry and pharmacology involved with designing, synthesizing and developing pharmaceutical drugs. Chalcones is a generic term given to compounds bearing the 1,3-diarylprop2-en-1-one, which can be functionlized in the propane chain by the presence of olefinic, keto and/or hydroxyl group. Chalcones belongs to the flavonoid family. Chemically chalcones consisted of open chain flavonoids in which the two aromatic rings are joined by a three carbon a,ß-unsaturated carbonyl system (Dhar, 1981). Microorganisms are a heterogeneous group of several distinct classes of living beings. They were classified under third kingdom, the Prostita. Based on differences in cellular organization and biochemistry, the kingdom prostita has been divided into two groups, Prokaryotes and Eukaryotes. Bacteria and blue green algae are prokaryotes while fungi, other algae, slime moulds and protozoa are eukaryotes. Anti-fungal drugs are among the most frequently prescribed preparations because of their fungal activity. They are widely used for the treatment of the fungal diseases such as Candidiasis and Apergillosis. These agents prevent from fungal infection. Anti-oxidant drugs are among the most frequently prescribed preparations to prevent Oxidation.

Keywords: Synthesis, Chalcone, Hetrocyclic Compound, Antioxidant, Antifungal

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419 Buoy system for navigation

Paper ID V7I3-2067 · Pages 2173-2178 · Computer Engineering

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Development of a multipurpose buoy system for navigation

Keywords: Buoy System, Navigation

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420 Green energy & indoor technology for smart buildings

Paper ID V7I3-2129 · Pages 2179-2182 · Construction

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Buildings all round the planet consume a signficant quantity of energy that is about one-third of the entire primary energy resources out there. This has semiconductor diode to loads of challenges with regard to provides of energy, energy resources fast depletion, increase in building service demands, jury-rigged comfort life-style in conjunction with time increase pay in builds; this all has exaggerated the energy consumption. Even the planet-wide property is in addition pushing the implementation of inexperienced buildings at intervals the world . Researchers and scientists square measure acting on this issue for a very whereas , however still the issue is rife. The aim is to gift comprehensive and signficant analysis conducted to date with regard to inexperienced buildings. This provides in-depth analysis of style technologies (i.e., passive and active technologies) that lay a sturdy foundation for inexperienced building and conjointly highlights the good automation technologies that facilitate in energy conservation in conjunction with varied performance metrics.

Keywords: Solar Panels, Energy Consumption, Structure, Environment, Pollution, Energy Harvest, Energy and Buildings, Greenhouse

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421 Measuring heart rate using the pulse sensor

Paper ID V7I3-2126 · Pages 2183-2185 · Computer Engineering

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With plenty of new healthcare technology start-ups, Arduino alongside an Embedded System is rapidly revolutionizing the healthcare industry, during this project we'll find out how to design pulse measuring instruments using Pulse Sensor & Arduino. This paper describes how of measuring the heart rate through a

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fingertip and Arduino. The proposed approach consists of sensors that measure the heartbeat of an individual and display the readings in BPM on the serial monitor of Arduino IDE and visualizer.

Keywords: Arduino, Pulse Sensor, Processing Visualizer

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422 QR based automatic damaged street light fault detection management system

Paper ID V7I3-2128 · Pages 2186-2188 · Computer Engineering

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The IoT (Internet of Things) is a promising technology that mainly concentrates on the interconnection of devices or components to one another and the people. Street lights are the basic service that is important for both rural and urban cities over the globe. As the world is moving towards automatics so the project proposed in this paper is based on automatic street lights, which will switch ON automatically when there is dark outside, if there are few lights not working, we can easily get their information by having a QR code scanner on each pole which people can scan and submit the issues which will be directly sent to the local area corporation making it flexible for people to use it easily. Finding the faulty street light automatically is become an important milestone by using this technology. Whereas in this proposed work using QR this light working status is easily captured with minimum manual interaction.

Keywords: IoT (Internet of Things), QR Code, Street light, LDR (Light Dependent Resistor), LED (Light-Emitting Diode)

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423 Dynamic response of a single pile subjected to a follower load

Paper ID V7I3-2139 · Pages 2189-2193 · Structural Dynamics

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The Dynamic Response of a single pile following Leipholz's rod has been solved. The analysis attempts to provide the solution of the pile if the model of the system is taken to have a non-self-adjoint follower load under the influence of a heterogeneous Winkler soil model. The method of Laplace transform is used to deal with the non-conservative initial-boundary-value problems. In this paper, a close-form solution has been developed to deal with the concave singularity function of the soil subgrade modulus if the admissible function for the pile is satisfied when upset by a time-dependent lateral force. This research domain is still active as research engineers and mathematicians are engaged in developing a deeper understanding of dealing with singularity. The result obtained is compared with those given by static (finite element) analysis.

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Keywords: Dynamic Analysis, Non-Conservative System, Follower Forces, Singularity Function, Heterogeneous Soil Profile, Green's Function

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424 Detection and Classification of Malicious Websites

Paper ID V7I3-2143 · Pages 2194-2196 · Information Science Engineering

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Phishing is an attractive methodology that is used by the attackers to steal personal data from people. Phishing websites are fraudulent web pages used for cyber thefts. They use domain names, similar to that of an original website, send mail and direct messages to lure someone in sharing personal information. Although many new anti-phishing methods are out ,still these attackers innovate new methods to target these. Therefore there is an alarming need to develop new ways to protect people from phishing. The Project uses different models of comparison in classification of phishing websites for detection and prediction using different machine learning models. The main goal of the project is to make Machine Learning Algorithm for data input and prediction and classify URL's that are malicious . Using python packages(Fastai,Scikit,pandas,Seaborn etc.) the dataset is converted into Distribution Plots and Confusion Matrix.

Keywords: NA

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425 Forest fire prediction using ML and AI

Paper ID V7I3-2136 · Pages 2197-2200 · Machine Learning

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Forest fire forecasting is crucial for resource allocation, mitigation, and recovery. The risk of forest wildfires is rising all around the planet. Large wildfire frequency and area damaged have increased by more than four and six times in the last five decades, respectively. Oxygen, humidity, and temperature are all essential factors in wildfire risk evaluations. A new forest fire risk prediction method is described, which is based on Support Vector Machines, Logistic Regression, KNN, decision trees, and Random Forest. The findings show that forest fire danger can be predicted with reasonable accuracy. So, using machine learning techniques and algorithms such as Logistic Regression, KNN, SVC, Random Forest, and Decision Tree, we proposed a system to predict the percentage of fire occurrence based on various parameters such as temperature, humidity, and oxygen data entered by the user in the front end

Keywords: Forest Fire, Machine Learning, Oxygen, Humidity Temperature, KNN, Random Forest, SVM, Decision Tree, Logistic Regression

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426 Plan and simulation of an ANFIS MPPT controller for Solar Power Application in MATLAB

Paper ID V7I3-2115 · Pages 2201-2204 · Electrical

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In this paper we present a savvy control procedure for the MPP following of a photovoltaic (PV) framework utilizing versatile neuro-fluffy surmising framework (ANFIS) under factor sun oriented light conditions. For this a sunlight based photovoltaic module and a DC/DC Boost converter is created in MATLAB/SIMULINK climate. At first, MPPT regulators were planned utilizing Perturbation and Observation (P&O) techniques. Be that as it may, this traditional strategy can't adequately follow quickly changing occurrence sunlight-based illumination levels. Henceforth, a savvy MPPT regulator was planned utilizing ANFIS tool kit which draws a lot of energy and creates quick reaction under constantly changing working conditions. The PV module with proposed MPPT regulator was investigated in independent mode. The significant burden with PV framework is its questionable and discontinuous force yield which relies upon climate conditions. PV module alone can't supply solid capacity to the separated burden successfully. To anticipate the force provided to the heap under various working conditions affectability examination has been done for the PV framework with planned MPPT regulator.

Keywords: Solar Cell, Photovoltaic, P&O, ANN, ANFIS, MPP, MPPT, Fuzzy Logic, Buck-Boost Converter

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427 Carbon sequestration potential of silvicultural and horticultural tree species under different multitier cropping systems

Paper ID V7I3-2140 · Pages 2205-2209 · Agricultural Science

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Agroforestry plays a better role in increasing agricultural productivity by nutrient recycling, reducing soil erosion, and improving soil fertility and enhancing farm income compared with conventional crop production. Furthermore, it has promising potentials for reducing deforestation while increasing food, fodder, and fuelwood production. Agroforestry practices can reduce the atmospheric concentration of CO2 by increasing carbon storage in biomass, decreasing emission at source and modifying agricultural practices to increase the quantity of carbon stored in soil organic matter. The natural cycling of the carbon is maintained and controlled by a dynamic balance between biological and inorganic processes since the geological history of the earth. In the terrestrial ecosystem, carbon is sequestered in rocks and sediments, wetlands and forests, and in the soils of forestland, grasslands and agricultural land. In this paper, the estimation of the biomass and carbon sequestration rates of silvicultural and horticultural tree species under Horti-silviculture and Agri-Horti-

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Silviculture agroforestry system has been done. This investigation is proof to substantiate the fact that adoption of agroforestry techniques/systems is not only beneficial to farmers from their economic perspective but at the same time agroforestry systems helps to reduce global warming and rejuvenate the earth's atmosphere. In four years of study carbon sequestered in the following manner: Grevillea robusta > Dalbergia sissoo > Syzygium cumini> Mangifera indica> Anacardium occidentale > Eucalyptus globules. When compared according to silvicultural and horticultural categories it Syzygium cumini was found most efficient among horticultural tree species while Grevillea robusta was most efficient among selected tree species.

Keywords: Carbon Sequestration, Agroforestry, Horticultural, and Silvicultural Tree

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428 Experimental analysis of rooftop solar PV modules installation in educational premises

Paper ID V7I3-2178 · Pages 2210-2214 · Mechanical Engineering

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Photovoltaic module solar energy is a renewable source of energy that uses solar radiation to produce electricity. It is worked on the so-called photoelectric effect, by which semiconductor materials are able to absorb photons (light particles) and release electrons, generating an electric current in form of Direct Current. Which then converted into Alternative current with the help of alternator. There is notable research is going on to use various Straight PV Modules and their types of System on the basis of their operation as alternative of electricity. Solar power systems derive clean, pure energy from the sun. Traditional electricity is sourced from fossil fuels such as coal and natural gas. Installing solar panels on home, Educational Institute and open spaces helps combat greenhouse gas emissions and reduces our collective dependence on fossil fuel. In present assessment Installation of roof top solar PV modules for reducing Electricity bill by using On-grid power system by net metering. Here energy generated by this solar pv module solar plant is transmitted to the electricity power grid and on compensation from electricity board Electricity bill reduces to minimum or extra arears provided to consumer. In traditional way to production of electricity fossil fuels is used which continues to rise producing high levels of carbon dioxide (CO2) which climatologists believe is a major cause of global warming. Similarly, electricity from various Electricity Boards and manufactures hikes their prices by day by day which is affect the unbalanced in the cost and profits of the individuals and its show the impact on social economic life of the persons. Whereas solar energy which is get from Sun is in bulk and its cost nothing. Initial Cost and maintenance cost is low as compare to other source energy.

Keywords: Net metering, On-Grid System, PV Module, Solar Energy

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429 Apex Predator Conservation through Ecosystem Service valuation

Paper ID V7I3-1864 · Pages 2215-2223 · Environmental Sciences

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Large predators are the most well-known type of animals around the world, ranging from tigers, lions, bears and wolves who roam terrestrial ecosystems, to sea otters and nile crocodiles who maunder aquatic ecosystems. Despite their ubiquitous popularity, their populations are in imminent danger. Large carnivore and predator populations are experiencing a precipitous decline which can lead to a colossal imbalance in ecosystems. Over the past two centuries, predators have experienced geographic range contractions, fragmentation of habitat, and loss of individuals through hunting. This literature review analyzes and explains how the decline in large carnivore and predator populations can lead to indirect consequences within and across ecosystems. Using an ecosystem services valuation approach, this paper demonstrates how large predator conservation is not only economically justified, but imperative for widespread ecosystem stability.

Keywords: Predator, Predators, Conserve, Conservation, Ecosystem, Ecosystem Services, Apex Predators, Protection

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430 Charging station infrastructure and its management

Paper ID V7I3-2065 · Pages 2224-2230 · Automobile

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Due to increasing pollution, global warming, and various environmental problems, 21st-century people are moving toward hybrid and electric vehicles. The electric vehicle is the combination of two or more fields of engineering such as mechanical, electrical, and electronic engineering. Electric Vehicles powered by an Electric Motor which draws current from a rechargeable The battery is termed an Electric Vehicle. The electric vehicle replaces IC engine vehicle in such a way that engines are replaced by an electric motor and rechargeable batteries. These vehicles have a good scope in future due to scarcity of fossil fuel because most of the vehicle i.e. 90% of vehicle depends upon fossil fuel to run the vehicle. Some other alternatives are carried out in today life is running the vehicle from electricity. In India, the electric vehicles had been published but charging stations are not organized completely like petrol pumps in every street/landmark/area. So are first step is to decide infrastructure of charging station and its management. Because it is not to introduce the electric vehicle it is also necessary to develop the charging station source in every street and area as like petrol pump and also some other alternatives about charging the vehicle is also important in emergency cases or some other reason. If the infrastructure of the charging station and its management well settled and executed then the only electric vehicles will be a wide change in the society in terms of environment and saving of the fossil fuel. Due to increasing pollution, global warming, and various environmental problems, 21st-century people are moving toward hybrid and electric vehicles. The electric vehicle is the combination of two or more fields of engineering such as mechanical, electrical, and electronic engineering. Electric Vehicles powered by an Electric Motor which draws current from a rechargeable The battery is termed an Electric Vehicle. The electric vehicle replaces IC engine vehicle in such a way that engines are replaced by an electric motor and rechargeable batteries. These vehicles have a good scope in future due to scarcity of fossil fuel because most of the vehicle i.e. 90% of vehicle depends upon fossil fuel to run the vehicle. Some other alternatives are carried out in today life is

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running the vehicle from electricity. In India, the electric vehicles had been published but charging stations are not organized completely like petrol pumps in every street/landmark/area. So are first step is to decide the infrastructure of the charging station and its management. Because it is not to introduce the electric vehicle it is also necessary to develop the charging station source in every street and area as like petrol pump and also some other alternatives about charging the vehicle is also important in emergency cases or some other reason. If the infrastructure of the charging station and its management well settled and executed then the only electric vehicles will be a wide change in the society in terms of environment and saving of the fossil fuel.

Keywords: Charging Station, Electric Vehicle, Hybrid Vehicle, Charger, AC & DC Current, Chargers

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431 Hydroponics

Paper ID V7I3-2137 · Pages 2231-2234 · Iot And Agriculture

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this paper is regarding the various hydroponics practices and abt the various aspects of modern farming allowing a sustainable development and large production in a controlled environment.

Keywords: Hydroponics, Tank-Farming

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432 Coping Strategies of students of High School and College for Anxiety During the Pandemic

Paper ID V7I3-2144 · Pages 2235-2242 · Psychology

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Covid-19 pandemic has affected people across the globe who have experienced lockdowns, restrictions, social distancing which has impacted their psychological and mental health. Coping strategies are a cognitive and behavioural effort made by individuals to deal with challenges presented by stressful situations. This study attempts to understand the coping strategies commonly adopted by students. This study examines three different coping strategies-problem solving, seeking social behaviour and avoidance adopted by high school and college students, during the pandemic. The study tries to understand the types of coping strategies adopted by students to deal with the stressful situation and how they use ‘coping with hope’ as a coping strategy. Further, the study aims to understand whether the coping strategies are more problem solving focussed or more avoidance focussed during the pandemic for the high school and college students. 98 students were selected based on random stratified sampling and snow ball sampling techniques from Delhi Public School, Gurgaon, India. The questionnaire used for the study was based on Coping Strategy Indicator developed by Dr. James H. Amir Khan along with a self-designed questionnaire to understand the nature of

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activities indulged in by the subjects and their attitude towards coping with hope. Pandemic has led to an increase in stress and a higher emotional oriented coping. Family and social support helped to reduce avoidance oriented coping. The findings of the study show that during the pandemic students adopted higher avoidance coping strategy than problem solving and seeking social support coping strategy.

Keywords: Coping Strategies, High School Students, Anxiety, Pandemic, Problem Solving, Seeking Social Support, Avoidance, Coping with hope.

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433 Sophisticated way to predict incrementation of pay using Machine Learning

Paper ID V7I3-2150 · Pages 2243-2246 · Computer Science Engineering

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The goal of this paper is to predict the salary of an individual after a particular year. The graphical representation of predicting salary may be a process that aims to develop a computerized system to take care of all the daily work of salary growth graph in any field and may predict salary after a particular period of time. This application can take the database for the salary system from the firm and makes a graph through this information from the database. it'll check the salary fields then import a graph which helps to watch the graphical representation. then it can predict a particular period of time salary through the prediction algorithm. It also can be applied in another effective predictions also.

Keywords: Machine Learning, Linear Regression, Polynomial Regression

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434 Why India is an easy target for Cybercriminals?

Paper ID V7I3-2157 · Pages 2247-2250 · Cyber Security

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The proliferation of newly developed technologies is a boon to society. At the same time, it showed the way for new types of technological crimes, particularly cybercrimes. In recent years, cybercrime becomes one of the greatest threats to humanity. Safeguarding against cybercrime is a vital part of every government. Cybercrime could be originated from any part of the world, crossing the international boundaries over the internet resulting in damages to the governments, organizations, and public. The technical and legal complexities of investigating and prosecuting these crimes are the foremost task for law enforcement agencies. Cybercrime is the most common threat for financial markets. Cyber-attacks have already caused considerable damage to retail banking, mainly through payment card scams and cyber frauds. In India, the Information Technology Act and its associated Rules and Regulations deal with cybersecurity and cybercrimes. Other laws contain some of the provisions of cybersecurity protection are the Indian Penal Code 1860 (IPC), and the Companies (Management and Administration) Rules 2014. But none of these laws is a dedicated cybersecurity law. Some sector-specific

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regulations like the Reserve Bank of India (RBI), the Insurance Regulatory and Development Authority of India (IRDA), the Department of Telecommunication (DOT), and the Securities Exchange Board of India (SEBI) have mandated their respective entities to adhere to cybersecurity standards prescribed by the regulators. The long wait Data Protection Act with international perception is yet to be released. However, we need to fight against cyber criminals effectively to cope up with the international requirements. The salient purpose of this article is to find implementable solutions to curtail the growing menace of cybercrimes in India.

Keywords: Cyber Laws, Cybercrime, Cybersecurity, Cybercriminal, Cyber-Attacks, Cyber-Frauds, Information Technology Act, Computer Crime

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Driver Drowsiness Detection System

Paper ID V7I3-2158 · Pages 2251-2258 · Machine Learning

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The world is becoming automated day by day in each and every aspect. The technological approaches to solve every human problem are evolving at a great interest in this rapid advancing environment. Automated houses, cars(for instance, Tesla self-driving cars), machinery, industries can be considered as the progressive outcomes which made the human life comfort, safe and easy. Although, there exist numerous situations that are damaging and the lives of people miserably . One of those circumstances is “Road Accidents”. There may be many reasons for this problem where “Driver fatigue” is one of those. “Each year, around 1.5 lakh people die in road mishaps in India.” –The Times of India[17]. To mitigate these accidents, we develop a model based on Convolutional Neural Networks (CNNs), Deep Learning which can detect the sleepiness or fatigue and notify the driver(or the person who is driving). In this paper, we developed a model using CNN classifier that identifies whether a driver is sleepy or not. The model here also provides an alerting alarm when the driver is sleeping (whenever he/she closes eyes). The proposed model is also evaluated using large amount of data to increase its accuracy and correctness while detecting the person’s drowsiness.

Keywords: Deep Learning, Convolutional Neural Networks (CNNs), Driver Drowsiness, Region of Interest(ROI), Haarcascade, OpenCV, Keras, Drowsiness Detection, Face Detection, Eyes Detection, Classifier

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436 “Restoration of ecosystems” using a trapping method of Carbon Dioxide

Paper ID V7I3-1924 · Pages 2259-2260 · Environmental Chemistry

Aniket Bahadur, Student, Independent Researcher

I have an idea to reduce the carbon dioxide from nature and save the ecosystem. Some basic chemicals required for this process. This process is the conversion process of carbon dioxide. In this process probably a new industry will be born. This process can be used in thermal power stations and burning waste paper. Because this is about 85% of the total electric power 558990 GWH generated in 2007-08 by thermal power plants in India. Thus, the total CO2 emissions can be estimated as about 523 million tons from all the thermal power plants in India. In this process, the source of carbon dioxide is the burning waste papers or thermal power plants. If we burn the paper the paper produces carbon dioxide (but not roasting the paper).

Keywords: Restoration, Ecosystem, Chemistry

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437 AC nanopump design and manufacture

Paper ID V7I3-2146 · Pages 2261-2264 · Nanotechnology

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In this paper, we design and manufacture for the first time a novel AC nanopump to generate flow velocity. AC voltage is needed at nanoscale pump designs and manufacture because DC voltage nanopumps design and manufacture generate bubbles/cavitation/instability and are not scalable designs and are not scalable to manufacture. AC voltage driven nanopump designed in and manufactured demonstrated in this paper overcomes bubble generation/cavitation/instability and our AC nanopump is a scalable design and manufacture.

Keywords: Nanopump, Nanotechnology

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438 DNA sequencing using Nanomanufacturing

Paper ID V7I3-2160 · Pages 2265-2267 · Nanotechnology

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In this paper, we nanomanufacture for the first time a novel DNA sequencing using nanoscale hole, in synthetic single digit nanometer thickness membrane. The DNA sequencing is carried out for each base of DNA to sequence and detect by placing a multimeter and the readings are taken on the edges of the synthetic single digit nanometer thickness membrane. The multimeter readings gives the voltage change readings for each

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base of DNA as there will be a change in concentration in the presence of DNA inside a nanoscale hole, in synthetic single digit nanometer thickness membrane.

Keywords: Nanomanufacturing, DNA Sequencing

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439 Age and Gender Detection using OpenCV

Paper ID V7I3-2163 · Pages 2268-2273 · Computer Science

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In this fast emerging world Artificial Intelligence plays a very vital role in every field of science . Everything is being automated from operating a remote to driving a car using Artificial Intelligence. We show a glimpse of such automated experience with this project. In this project we show how easy it is to detect faces and identify gender along with gender with the help of CNN(Convolutional Neural Networks) and OpenCV. Using these fields of Artificial Intelligence we can reduce the use of hardware components and complexities in this project. Along with CNN and OpenCV we use Adience dataset so that the output is achieved with accurate values in training and validation. For the output to be determined even with multiple parameters we use pre-trained model that is caffee model along with OpenCV. The proposed model can be used in surveillance purposes or in medical purposes.

Keywords: Deep Learning, CNN, OpenCV, Protocol buffer, Adience dataset, Caffe model

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440 AI Based license Plate recognition using CNN

Paper ID V7I3-2167 · Pages 2274-2277 · Deep Learning

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The discovery based on the artificial intelligence of the Indian license plate is our theme. We have created a program that is able to take a photo from the surrounding area. At the end of the hardware, we need a pc (or raspberry pi) and a camera and at the end of the software, we need a library to download and process data (image). We have used OpenCV (4.1.0) and Python (3.6.7) for this project To get something (license plate) in the picture we need another tool that can see the Indian license plate to use Haar cascade, pre-trained on Indian license plates (to be updated soon) be YOLO v3). Our main objective is to establish a system that gives us the license plate number of a vehicle when given a low definition image captured by a surveillance camera

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at toll collection centres. Mostly our system is demanded for the purpose of traffic monitoring. Hence we designed a system that lessens the manual work of entering the license plate numbers. And also we built a system that increases the speed of processing toll collections or traffic violation punishments. Our model is built on convolutional neural networks where several mathematical computations are done within the six hidden layers and give the output characters using contour detection and character segmentation.

Keywords: Neural Networks, Back Propagation, CNN, Deep Learning, Binarization, Character Segmentation, Contour Detection

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441 Number Script Recognition using Neural Networks

Paper ID V7I3-2171 · Pages 2278-2282 · Machine Learning

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The ability for accurate digit recognizer modelling and prediction is critical for pattern recognition and security. A variety of classification machine learning algorithms are known to be effective for digit recognition. The purpose of this experiment is rapid assessment of multiple types of classification models on digit recognition problem. The work offers an environment for comparing four types of classification models in a unified experiment: Multi-class decision forest, Multi-class decision jungle, Multi-class Neural Network and Multi-class Logistic Regression. The work presents assessment results using 6 performance metrics: Overall accuracy, Average accuracy, Micro-averaged precision, Macro-averaged precision, Micro-averaged recall and Macro-averaged recall. The experimental results showed that the highest accuracy was obtained by a Multi-class Neural Network with a value of 97.14%. The purpose of this project was to introduce neural networks through a relatively easy-to-understand application to the general public. This paper describes several techniques used for preprocessing the handwritten digits, as well as a number of ways in which neural networks were used for the recognition task.

Keywords: OCR, Handwritten digit recognition, Slant Correction, PCA, Accuracy, Confusion Matrix, Digit recognizer, Machine Learning, Classification Algorithms.

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442 Reusable AI-based ensemble model for detecting SQL injection in service-oriented architectures

Paper ID V7I3-2088 · Pages 2283-2286 · Computer Science

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Cybersecurity has become one of the most sought-after domains in the field of computer science. Protection of

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computing resources and information against disruptive cyber threats has garnered utmost attention in recent times, owing to the conventional methods used in the field that often fall short of detecting or preventing the ever-evolving collection of malware. With the advent of new technologies such as Machine learning and Artificial intelligence, it is possible to streamline the approaches in the field of Cybersecurity. These technologies can be used to detect and prevent malicious content, thereby developing successful security solutions. The right AI tech could help us process huge volumes of threat data, discover anomalies and effectively eliminate potential threats. Currently, the most common approach involves using regular expressions to sequentially compare the incoming request or its vector with a predefined set of signatures. Though this approach is widely prevalent, it falls short in terms of accuracy. This is due to the fact that the signatures are not updated often, and several logical problems or loops come up when regular expressions are used within thousands of individual rules. In this project, we aim to identify various injections among neutral input vectors using ML models and will be predicting whether the vectors are injections or not. An ensemble of a number of ML models is used to build a voting mechanism to have an accurate prediction. For the sake of demonstration, the application consists of a frontend built using react and a python flask backend server

Keywords: SQLi, Artificial Intelligence, Machine Learning, Logistic Regression, Ensemble model, Neural Network, Gaussian Naïve Bayes, SVM, KNN, Decision Tree, Cybersecurity, Flask, React

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A study on Web conferencing system and the deployment

Paper ID V7I3-2087 · Pages 2287-2291 · Computer Science

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In the current scenario due to the spread of COVID-19, there has been an increase in the use of web conferencing systems to communicate among people. Web conferencing systems have enabled organizations, universities, and individuals to communicate over the internet from their homes during the current pandemic. Web conferencing system not only allows people to communicate over the internet, but it also has other features which enable users spread across different regions to collaborate like a whiteboard, polls, chat, and others. As the number of users is increasing for such systems, scaling and load balancing becomes vital to handle all the users. This paper presents an exploration of the web conferencing systems and explores a case study of an open-source web conferencing system and scaling of the respective system to meet the demands of the system.

Keywords: Big Blue Button, Greenlight, Scalelite, AWS, Cloud Formation, Automation, Load-Balancing, Cloud

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444 Improved tweet Sentiment Classification Using Convolution Neural Network and Random Forest

Paper ID V7I3-2142 · Pages 2292-2296 · Convolution Neural Network

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With over 319 million monthly active users, Twitter has developed into a goldmine for organizations and people with a strong political, social, or economic incentive to retain or enhance their clout and reputation. Sentiment analysis enables these firms to conduct real-time surveys on numerous social media platforms. Twitter sentiment analysis technology enables the measurement of public attitudes toward certain events or products. The majority of current research is devoted to extracting sentiment traits through the analysis of lexical and syntactic variables. These characteristics are openly stated using emotional words, emoticons, and exclamation points, among others. In this research, effective feature extraction is accomplished via the use of convolution mapping and an attention layer. These features are then learned by random forest.

Keywords: Convolution Neural Network, Twitter

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445 Applications of Artificial Intelligence in IoT and Sensor Networks: A Survey

Paper ID V7I3-2155 · Pages 2297-2300 · Artificial Intelligence

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The Internet of Things (IoT) is a digital universe in which tangible daily items are welcomed into a networked digital environment. Virtual assistants, smart thermostats, and fitness trackers are all examples of existing IoT gadgets. IoT innovation is accelerating, bringing more sophisticated gadgets to market with enormous potential to improve human well-being in sectors such as smart cities, efficient manufacturing, and customized healthcare. The factual motto of the IoT revolution is artificial intelligence (AI), which leverages computational power to learn from the massive amounts of data produced by IoT sensors to provide intelligent solutions and accurate predictions thereby providing value to IoT devices. To gain a bird's eye view of the future development of AI applications for IoT (referred to as AI-IoT in this Article), one critical consideration is whether such technology can be protected by intellectual property in the form of patents, and the impact of such patents on the AI-IoT innovation landscape. Enduringly this paper presents the ideas of artificial intelligence and machine learning together with defining its requirements, in the IoT.

Keywords: Internet of Things, Artificial Intelligence, Sensor Networks

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446 Design guidelines for an effective workspace during the pandemic

Paper ID V7I3-2191 · Pages 2301-2306 · Interior Space Design

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The coronavirus (COVID-19) pandemic has made employees nervous about returning to office spaces, as working situations in offices incorporates multiple shared surfaces, minimal scope for maintaining social distancing thereby increasing the risk of virus transmission. During the pandemic, both the government and the private sector witnessed significant modifications in their working methods. Although many adopted remote working, certain sectors such as banks, courts and health-care administrative offices have probably experienced more changes as most of them were open and operational throughout the pandemic. Considering the current pandemic situation and with all the Government and health mandates that has come into effect in an office workspace, new guidelines and design interventions needs to be identified to secure employee's health and well-being within a shared workspace. This study is aimed at exploring the various organizational approaches in making an office space more welcoming during the pandemic and understanding the importance of designing a healthy interior environment. The nature of this research is intended in the direction to explore the potential ideas where remote working option is not feasible or where the nature of the work demands physical presence. Besides following the general measures, if certain changes or alterations can be done to an existing office space without having to completely change the interiors, could add an extra layer to the defensive measures.

Keywords: Workspace, Office, Open plan, Shared workspace, Guidelines, Pandemic, Re-designing

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447 Knowledge and utilization of Janani Shishu Suraksha Karykram among postnatal mothers in selected urban health centres

Paper ID V7I3-2197 · Pages 2307-2314 · Nursing

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Background: The act of giving the birth is only moment when both pain and pleasure conserve at moment of time. This experience of transformation from womanhood/wife hood into the motherhood is privilege reserved exclusive for woman. Hence this transformation phase that a pregnancy and following childbirth has been contributing to have great impact on both maternal and infant health. Mother /children constitute priority group they comprise approximately 71.4% of population of developing countries. In India woman of child bearing age constitute 22.2% and child under 15-year age of about 35.3% of total population together they constituents nearly 57.5% of total population. Globally observation show that in developed region maternal mortality rate average in 385/100,000 live birth. In developed country region the figure 440 for same number of live birth.

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The government of India launched new initiative of Janani Shishu Suraksha Karykram from Mewat district in Haryana on June 1 (2011) unmistakably signal a huge leap forward in quest to make health for all reality. Aim: To assess the knowledge and utilization of Janani Shishu Suraksha Karyakram among postnatal mothers in selected urban health centres Method: A non experimental descriptive study consisting of 384samples from urban health centre Aurangabad, Maharashtra, India. The questionnaire was used to assess the knowledge regarding postnatal care and entitlement of knowledge and utilization was used to assess the of structured interview. Result: There is significant association was found between P

Keywords: JSSK, Postnatal Mother, Urban Health Centres

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To Kill Wi-Fi Using ESP-8266 Module

Paper ID V7I3-2204 · Pages 2315-2316 · Computer Engineering

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The aim of this paper is to create a project to kill wi-fi as in kill unwanted devices. This device main function alert people against the flaws of their routers. The heart of this board is the wi-fi module esp-12E. This program code which we have developed kicks, unwanted people of the wi-fi, by attacking the routers and creates fake SSID's or removes every user. This module has a powerful enough on-board processing and storage capability that allows it to be integrated with the sensors and other application-specific devices through its GPIOs with minimal development up-front and minimal loading during runtime. Its high degree of on-chip integration allows for minimal external circuitry, including the front-end module, which is designed to occupy a minimal PCB area. So the User who's stealing (victim) won't understand why he got disconnected nor he'll be able to figure who's behind it.

Keywords: Arduino IDE, Arduino UNO, ESP-8266

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Multiple vehicle speed detection on camera feed

Paper ID V7I3-2200 · Pages 2317-2322 · Artificial Intelligence

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Technology is evolving day by day which leads to automation in many aspects. This also applies to traffic concerned issues. We are having a saturation of the transportation infrastructure due to the growing number of

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vehicles over the past few decades. It affects our lives particularly in the urban areas, while people need to move rapidly between different places. This results in traffic congestion, accidents, transportation delays and larger vehicle pollution emissions. One of the major issues for accidents is driving vehicles at high speed. There is a need to control this issue which raises the question ‘How?’ Several solutions were introduced to reduce this problem. “The number of pedestrians killed in road crashes due to over speed increased from 22,656 in 2018 to 25,858 in 2019 i.e., an increase of about 14.13 percent.” – News 18. This paper presents a way to control traffic in an efficient way using surveillance cameras. This proposed model can detect the speed of any number of vehicles using surveillance cameras. This model captures the images of the offenders and stores them in a folder. This model detects the speed with accuracy and correctness.

Keywords: Video Acquisition, Background Subtraction, OpenCV, Morphing Techniques, Gaussian mixture-based foreground/background (algorithm), Offenders Detection, Edge Detection

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Employee Awareness and Satisfaction towards Welfare Measures: An Empirical Study on Ramco Cement Limited., Kolaghat Grinding Unit, West Bengal

Paper ID V7I3-2127 · Pages 2323-2334 · Management

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Employee’s welfare refers to “the efforts which are provided by the employer for the good life worth of its employees”. Employee welfare means to provide an employee the basic minimum standards of a healthy and congenial working environment and living a worthy life. If the workforce be satisfied with the measures then only such humanitarian assistance is fruitful in its real meaning. Organizations provide welfare facilities to their employees to keep their motivation levels high enough. The employee welfare schemes broadly fall in to two categories: Intra-mural, provided within the work place and is governing by the specified laws on the other hand Extra-Mural, provided beyond the work place. Intra-Mural is the compliance of employee’s health, safety and welfare. Extra-Mural schemes differ from organization to organization and from industry to industry. This paper contributes the in-depth analysis of both Intra-Mural and Extra-Mural and its impact on employee satisfaction in Cement industries of a unit in West Bengal and recommendations for further improvement for deficiencies if any.

Keywords: Employees, Welfare Measures, Statutory Measures, Non-Statutory Measures, Employee Satisfaction, Satisfaction Levels, Organization, Performance, Efficiency of Employee, Benefits, Manufacturing Industry, Service Sectors

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451 Survey on Discrete Gesture Recognition Techniques

Paper ID V7I3-2149 · Pages 2335-2340 · Image Processing

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In present circumstances, for Human- Computer Interaction the hand gesture technology is a more habitual and usable system. Programmed hand gesture recognition framework gives us another strategy to be interconnected with the virtual environment. Humans use genuine physical controllers like mouse, keyboard to interlink with the computer which forestalls regular interface due to solid hindrance. To perceive the hand gesture and act according to the user commands to control the application is the sole purpose of hand gestures. This paper explores late strategies utilized in vision based Human Computer Interaction. All the approaches discussed in this paper are calculated and classified based on the type of work done, applied algorithms and proofs and also resources utilized.

Keywords: Human Computer Interaction, Hand Gestures, Face Detection, Image Processing, Feature Extraction

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452 Digital enhancement of agriculture

Paper ID V7I3-2154 · Pages 2341-2345 · Agriculture

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In India, the field of agriculture is the foundation of India. To make the farming manageable, this framework is proposed. In this framework. Various types of sensors are utilized. This paper presents a completely computerized drip water system framework which is controlled by checking the soil moisture and the requirements of the plants. Another major problem is the pest causing disease detection. The Agrifinancial misfortune is fundamentally due to creepy pests and few animals. Subsequently, pesticides are broadly utilized by ranchers to control weeds, creepy pests and plant sicknesses without properly knowing about the disease. Abundance use of pesticides isn't just an unfriendly for the climate yet additionally for human and economy of the nature. In this paper, we proposed plant leaf disease detection, which gives disease name and recommends a pesticide suitable for the particular disease through the approach image processing and Convolutional Neural Network. We proposed another bug control framework What's more, picture handling advancements to control bothers, in this way diminishing the utilization of pesticides. The proposed framework utilizes infrared sensor (IR) to identify the presence of bug by the warmth transmitted by their body. Image-processing is utilized to catch pictures of the bugs to affirm their presence in the field. After affirming the presence of creepy pests by image-processing and PIR sensor, the ultrasonic generator is utilized to create ultrasonic waves which are terrible to bugs and mites, drive them away from the rural field. The proposed framework helps the ranchers to improve the rural creation and the board in an economic and safe way.

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Keywords: Agriculture, Image processing, Sensors, Convolutional Neural Network Algorithm, Ultrasonic frequency

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Design and fabrication of sensor based operated cutting machine

Paper ID V7I3-2161 · Pages 2346-2348 · Mechanical Engineering

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This is an automation based cutting process, it consists of cutting of bar at certain distance. Bar, pipe or any shape pipe can be cut by using this machine without more effort and saving valuable time in manufacturing process. This machine has automatic clamping. Now days, there are wide verity of wire products like welding electrode, weld mesh, heat treated kitchen baskets, automobile spark plugs and exhaust valves etc. This machine can be widely applied in almost all type of industries. The pipe cutting process is a main part of the all industries.

Keywords: Pipe Cutting Machine, Pneumatic Cylinder, Sensor, Flow Control Valve, Direction Control Valve

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Strategy for global online marketing

Paper ID V7I3-2166 · Pages 2349-2352 · Management

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In this digital and internet era, global online presence of a company for its products and services, makes the company global and various digital tools afford both the customers and the company more benefits, and all marketing strategies need to adopt with this digital era, this paper ascertains these transformation in the marketing strategies.

Keywords: Online Marketing, Digital Tools, Marketing Principles and Strategies

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Floating concrete by using light weight materials

Paper ID V7I3-2173 · Pages 2353-2355 · Civil Engineering

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The aim of the research is to identify the material which makes the concrete float and it should also have strength. Floating concrete is a type of concrete having a density less than water and it floats on water. There are many types of lightweight concrete that make concrete. Floating concrete is a kind of concrete having a thickness not as much as water. Floating concrete is non-structural concrete. This research investigates the properties of lightweight concrete by using a thermocol. In this technique, the thermocol is used for the preparation of the lightweight concrete and density is reduced to attain maximum efficiency, whereas the Self-weight of the structure is minimized thereby reducing the dead load on the structure.

Keywords: Cellular Light Concrete, Dead Load

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Quality Life Cycle of the Pharmaceutical Products

Paper ID V7I3-2186 · Pages 2356-2359 · Pharmaceutical Science

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Quality in the pharmaceutical industry is a very important. Quality cannot be tested into the products. But building-in quality from the development phase and throughout a product's life cycle will deliver a perfect quality product. Quality is the most vital aspect of medicines and any short fall may generate risks to the patient. It is anticipated that adequate training of pharma professional and practicing the validated controls will deliver quality product. However, this should not be the one-time event but an activity that continues throughout a product's life. The consistency in quality parameters shall be evaluated considering all three manufacturing stages simultaneously, including the Key Starting Material (KSM), Active Pharmaceutical Ingredient (API) and Pharmaceutical Finished Pharmaceutical Product (FPP).

Keywords: Product life cycle, Quality evaluation, cGMP, EU, USFDA, Pharmaceutical quality system, Quality Target product profile, Critical material attributes, Critical quality attributes, Critical process parameters, Quality Risk Management, Design space, Control Strategy, Life cycle Management and Continuous improvement.

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457 Guidelines for the use of Smart Home Technology for Elderly People

Paper ID V7I3-2189 · Pages 2360-2364 · Product Design

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New technology and smart homes have the potential to enhance standard of living, safety, and take care of older ones in house. The elderly and disabled can be monitored with various intelligent devices. Sensors can be ingrained into their home for continuous quality help and non-obtrusive malady hindrance. Sensor-embedded homes, or smart homes, cannot solely assist individuals with reduced physical functions, however they facilitate resolving the social isolation they face. However, we do not yet know how older people's perceptions of these technologies may vary, in particular how views based on experience of actual use may differ from those related to anticipated use. We also do not know how older people living independently might view technology that may be of future rather than current value to them. The paper has explored older people's views of smart home monitoring technology and compares between people with direct experience and people without. Support that, what guidelines they may want to follow while using it. From this study, one will ascertain totally different understandings by mature individuals, acceptance will increase over time and with use. Also relating to privacy, trust, usability, and more concerns about utility. This study concluded the views about the technical feasibility, affordability, impact on relationships, and about the engagement and competencies of those who would view the monitoring data to use in the design field for future use especially for elderly people.

Keywords: Home Healthcare, Smart homes, Elderly people, Technology acceptance, Digital Health

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458 University chatbot with database integration using RASA

Paper ID V7I3-2193 · Pages 2365-2368 · Computer Science

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Chatbot is an Artificial Intelligence (AI) software that simulates and processes human conversations as if the humans were having a real conversation with another human. They are used in various business applications to help address human queries and assist them with important details. RASA is an open-source machine learning framework for building chatbots. RASA leverages Natural Language Understanding (NLU) to break down user messages into intent and entities which help form an appropriate response for the user's messages. The RASA conversational assistant has several components that help predict the responses and also tune the model to get better results from the model. This paper will provide the design of a chatbot that handles basic queries of a particular university that could be used on the university website. This paper also explores how individual components of the RASA pipeline help curate the response for the users.

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Keywords: RASA, Natural Language Understanding (NLU), Chatbot

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Customer segmentation

Paper ID V7I3-2192 · Pages 2369-2372 · Machine Learning

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Now a days, maintaining customer loyalty and attention span of the customers are major challenges faced by the retail industry. This leads to the need for reinforcement of marketing strategies from time to time. This project “CUSTOMER SEGMENTATION” main objective is to segment the customer by analyzing their behavior, their needs and their interests. It is a systematic approach for targeting customers and providing maximum profit to the organizations. An important initial step is to analyze the data of sales from the purchase history and determine the parameters that have the maximum correlation. Based on respective clusters, proper resources can be channeled towards profitable customers using machine learning algorithms.

Keywords: Segmentation, Clustering, Visualization, Classification, Voting

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Diagnosis of Bone Fissure Fracture detection using OpenCV Tool

Paper ID V7I3-2205 · Pages 2373-2375 · Image Processing

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New technologies are emerging daily in different fields, most employed technologies are in a medical environment. However, still, there are many old techniques that are quite popular, very efficient and also very effective in this manner. X-Rays are one of these techniques that are used for the detection of bone fractures and injuries. But sometimes the size of fractures is not significant and could not be detected easily or when the size of the fracture is too small. Therefore, effective and intelligent systems should be designed to overcome these problems. This paper aims to develop a classification system that would be capable of detecting and classifying bone fractures. The developed system comprises of different principal stages. The images of the fractures are processed using different image processing techniques using OpenCV in order to detect their location and shapes.

Keywords: Image Processing, Bone Fracture Detection, Medical Imaging, Computer Vision

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461 Child safety GPS tracker system

Paper ID V7I3-2206 · Pages 2376-2380 · Iot

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This paper suggests the idea of designing a child's GPS system using Root that will help parents monitor the child even when he is not at home and find all of his child's activities in any remote part all over the globe. It is a new, effective, smart, and protective way for the Cradle System to raise a successful child. Hear the program checks all her details of the minutes needed to care for and protect her baby at birth. intelligent design and design using technologies/methods including Internet of Things (IoT) (Module such as Node-MCU, temperature sensing), Cry Detecting Mechanism, Cloud Computing (Data Storage), and User-Friendly IoT application (for user controls). To be able to see the work of each child, including the different sensors/modules o Cradle: Comprehension Module for getting Water in his Bed, All his details such as those sensors/modules will be stored in the Android App.

Keywords: Child, Safety System, Parents Monitor, Node MCU

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462 Climate change, Sustainable development concerns: North-Eastern Hilly Region, India

Paper ID V7I3-2196 · Pages 2381-2386 · Climate Change

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Climate change has been a major issue for which many environmentalists, researchers, scientists and professionals directly or indirectly involved with, are working rigorously to understand, delay and minimise the impacts it is creating on human life. The major need for sustainability begins with the rise in global temperature which has created subsequent multifaceted problems. The UN has been working on various protocols to control the temperature change in the climate. But the climate changes are exponentially impacting areas and

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creating zones of vulnerable. The aim of this paper is to study the vulnerabilities of a hilly terrain to understand the issues that have arisen due to disruption in regular patterns in the climatic conditions. The changes considered over a period of years include livelihood, economic status, geographic conditions, climate, etc.

Keywords: Climate change, Vulnerability, Global warming, environment, economic, socioeconomic aspects

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463 Lack of skilled management personal in small and medium constructions

Paper ID V7I3-2207 · Pages 2387-2393 · Construction Project Management

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Small and medium enterprises precisely known as SMEs in our country are an important and integral part of our nation's growth in the economy. Other integral development in our country is largely based upon the SME's. Skill shortage in the construction industry is persisting throughout the century in all levels of management. But there is very little evidence for skill shortage in the management level of construction industries. Skill shortage directly impacts the project outcomes in terms of profit validity and other aspects. Skill shortage in the workplace not only impacts the particular employer it affects the overall organization settings. This study will discuss more on skill shortage causes and factors and how it impacts the project outcomes and how it impacts the organization set up and the methods and other aspects to mitigate the skill shortages.

Keywords: SME, Skill Shortage, Organization, Construction Management

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464 Virtual telepresence robot

Paper ID V7I3-2208 · Pages 2394-2398 · Robotics

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This paper proposes a method for a Virtual Telepresence Robot. That is a user can control a wireless robot remotely from any part of the world along with the live video transmission from the robot's location. The 3 components of this project are the wheeled-robot, the camera with pan-tilt head mechanism and a web server (Flask Web Server). Raspberry Pi is the central component that interfaces user and the virtual telepresence robot over internet. The web interface is built on a flask Micro-web server application, which used to control the robot in localhost, further Ngrok is used for tunnelling local host web server to internet, through which the user can control the robot over the internet. The web server sends a wireless command which is received by Raspberry pi thus actuating robot and camera directions. The MJPEG streamer application is used for streaming video that gets mjpeg data and sends it through the HTTP session. The Raspberry pi is programmed in python language.

Keywords: Raspberry Pi, Web-Server, Pan-Tilt, MJPEG, Flask, NGROK, Tunneling

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465 Waste minimization in construction using lean six sigma

Paper ID V7I3-2209 · Pages 2399-2406 · Construction Project Management

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In India, the construction industry is one of the largest industries after the agriculture industry. It produces a large quantity of waste and consumes more resources, which makes construction a troubling task. The application of new technology, the Lean Six Sigma concept is likely to be effective for improving the efficiency of the construction industry. It aims to eliminate all defects and also to minimize the wastage of materials, time, and effort in order to generate the maximum possible amount of value. The aim of this study is to evaluate, Lean six sigma as a process improvement method to improve the construction process by, understanding and analyzing the factors affecting the formation of construction wastes. It is not possible to implement a lean philosophy into a company, without understanding the basics and purpose for which they were introduced. The practical part of the study is devoted to a detailed analysis construction process using the well-known Six Sigma cycle DMAIC - an abbreviation of the words: Define - Measure - Analyze - Improve - Control. The analysis was carried out on the basis of net study and interviews with the construction management and employees of subcontracting companies present at the construction site. The set of 45 potential factors which contribute most to waste generation was identified. A questionnaire survey was developed and sent to architects, contractors, and project managers involved with on-site construction activities. It can be said that using quality management tools (Lean and Sig Sigma principles) it is possible to visibly improve building processes and it is likely to achieve waste minimization before and during construction works.

Keywords: Six Sigma, Lean, Waste Minimization, Construction

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466 Sentiment analysis for Twitter data

Paper ID V7I3-2217 · Pages 2407-2409 · Computer Science

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Sentiment Analysis or analyzing emotion can be the process of understanding various textual opinions. Also known as opinion mining or emotional AI. People are interested in posting comments on social media that refer to their event experience to understand if most people had a positive or negative experience with the same incident. This classification is being achieved using Sentiment Analysis. Sentiment analysis takes a few unstructured text comments, events, etc. In all comments posted by multiple users and classifies the comments into different categories as positive or negative opinions. This is also called the Polarity classification. Sentimental Analysis is performed by text analysis and linguistics. This work aims to compare the performance of various machine learning algorithms when performing sentiment analysis for Twitter data.

Keywords: Machine Learning, Naïve Bayes, Logistic Regression, Sentiments, XGB Classifier, Classification, Opinions

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467 House rate prediction system using Machine Learning

Paper ID V7I3-2218 · Pages 2410-2412 · Machine Learning

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Everyone's desire is to purchase a home. When it comes to getting the best price, some people spend more than the property is actually worth. To tackle this challenge, we devised a method for predicting the price of a property using Machine Learning's Linear Regression model. We took into account all of the factors that one considers when purchasing a home, such as the neighborhood, the number of bedrooms, and the number of restrooms. It will undoubtedly assist the buyer in obtaining the best possible price.

Keywords: Property, Buyer, Purchasing, Linear Regression

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468 Malaria Parasite Detection System using Deep Learning and Image Processing

Paper ID V7I3-2221 · Pages 2413-2420 · Deep Learning

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Malaria is a mosquito-borne blood disease caused by Plasmodium parasites which are deadly, infectious, and life-threatening. The conventional and standard way of diagnosing malaria is by visual examination of blood smears via microscope for parasite-infected red blood cells under the microscope by qualified technicians. The given method is inefficient, time-consuming and the diagnosis depends on the experience and the knowledge of the person doing the examination. Image processing based Automatic image recognition technologies has been applied to malaria blood smears for diagnosis before. However, the practical performance has not been up to expectation. With the early prediction results, healthcare professionals can provide better decisions for patient diagnosis and treatments. This motivates us to make malaria detection and diagnosis fast, easy and efficient. To get quick results for the malaria tests, we proposed a model that involves Deep Learning and Image Processing. In this paper, we developed a model using Convolutional Neural Networks (CNNs) classifier that predicts whether the input image is malaria parasitized or not. The CNN model has many convolution blocks that detect even the tiniest possibility of plasmodium parasite present in our input. The proposed model is also evaluated using a large amount of data to increase its accuracy and correctness while detecting the malaria parasite.

Keywords: Malaria Detection, Plasmodium, Deep learning, Convolutional Neutral Networks (CNN), Tensorflow, OpenCV, Keras, Flask. 1.

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469 Investigation on the diffusion of chlorides into concrete

Paper ID V7I3-2219 · Pages 2421-2425 · Civil Engineering

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This paper discusses Rapid Chloride Permeability Test investigations on the penetration of chloride ions into the concrete. Concrete samples of M40 and M50 Grades have been tested. The concrete specimens are made using standard molds of 100mm diameter x 50mm height. After curing the concrete samples are experimented. Specimens were cast and tested for 28 days. One chamber is filled with sodium chloride (NaCl) and another sodium hydroxide solution is filled. The strength of sodium chloride solution is varied from 1000ppm-35000ppm and the strength of sodium hydroxide solution are 0.04N. For all the combinations, RCPT was carried out andthe charge passed through the specimens was noted. The Rapid Chloride Permeability Test values are found,the penetration charge through the concrete decreased with an increase in the grade of concrete.

Keywords: Rapid Chloride Permeability Test (RCPT), Sodium Chloride, 0.04N NAOH, PH.

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470 Hotel management system using Raspberry Pi

Paper ID V7I3-2059 · Pages 2426-2428 · Iot

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In this Era, Automation plays a very important role in different fields. Automation is becoming more and more popular day by day due to its various advantages. The development in the embedded system has proved to a reliable solution in monitoring and controlling the environment monitoring system. This can be achieved by local networking or through remote control or through mobile. The Raspberry pi is a single-board computer that has recently more popular. It has powerful hardware and also upgraded power system with 4 USB ports. So we are using the Raspberry pi for controlling the environment of the Hotel. The hotel management system is a web-based application that allows the customer to order the food from its remote location which is in the hotel itself.

Keywords: Raspberry Pi, LCD display, Smartphone

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471 The future of space robots

Paper ID V7I3-2141 · Pages 2429-2435 · Space Technology And Robotics

Reva Agrawal, Research Scholar, Independent Researcher

Space robots have been a significant medium for scientists to further advance their knowledge of space. These robots have enabled remarkable progress in the field of space exploration and have continuously helped in fulfilling the growing curiosity of humans. The Hubble Space Telescope, a legendary scientific instrument has taken pictures of our vast universe, bringing back to us the early moments of the creation of the universe and widening the horizons of our knowledge about the cosmos. The Giotto Spacecraft has enabled scientists to venture into interplanetary space and learn more about the comets and their true nature. Many such wonders of technology have done miracles in space and the bright future of these robots seems to be waiting for us to test our capability and hence design more advanced robots capable of withstanding harsh conditions

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experienced in space, being more resourceful than humans, having a brain of its own using the emerging technology of artificial intelligence which will make these robots capable of comprehending and analyzing data and sending it to us the most formulated form. This concise data can be used to derive inferences and conclusions which will lead to our better understanding of the extent of the universe and our place in it. This paper provides an overview of space robotics mentioning in detail its evolution and its future scope as well as covering its advantages.

Keywords: Robots, Unmanned Missions, Space Exploration, Artificial Intelligence, Technology

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AI Body Language Decoder using MediaPipe and Python

Paper ID V7I3-2223 · Pages 2436-2439 · Machine Learning

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Body language are visual languages produced by the movement of the hands, face and body. In this project we evaluate representations based on skeleton poses, as these are explainable, person-independent, privacy-preserving, low-Dimentional representations. Basically skeletal representations generalize over an individual’s appearance and background, allowing us to focus on the recognition of motion. We present a real-time on-device body tracking pipeline that predicts hand skeleton and the whole body notion. It is implemented via MediaPipe, a framework for building cross-platform ML solutions. We perform using pose estimation systems and analyze the applicability of the estimation systems to body language recognition by evaluating failure cases of the existing models. The proposed system and architecture demonstrates real-time inference and high prediction quality.

Keywords: Body Landmarks, MediaPipe, Body Language, Prediction, Accuracy, Real-time on-device Tracking, Pose Estimation, Recognition

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473 TDA layer: Impact of persistent homology on the performance of Convolutional Neural Networks

Paper ID V7I3-2228 · Pages 2440-2446 · Deep Learning

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In this work, we introduce the topological data analysis layer that estimates persistent homology on attributes extracted from convolutional layers for image classification. This method shows that topological information can be utilized to upgrade network performance. This work focuses on applying persistent images on the deep convolutional layer to learn topological features and also exploring the behavior of topological data analysis on various convolutional neural network architectures like sequential architecture and extended width architecture. Based on our empirical analysis, we exhibit the significance of topological data analysis on convolutional neural networks by attaining reliable scores on classification tasks on benchmark datasets.

Keywords: Convolutional Neural Networks (CNN), Topological Data Analysis (TDA), Persistent Homology, Persistent Representations

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474 Performance of geopolymer coarse aggregate in 50% replacement with natural coarse aggregate using iron ore tailings

Paper ID V7I3-2233 · Pages 2447-2451 · Structural Engineering

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Concrete contributes a very important role in the construction sector. Aggregates are the basic ingredients in concrete which will contribute about 60-70% of the total composition. Due to the highest demand for aggregates, it has resulted in over-exploitation of natural resources, hence it is very important to use alternative material. As we know fly ash and IOT are the largest wastes that have been producing in all over India and these are the best suitable alternative materials. In Karnataka state, Kudremukh iron ore company (KIOCL) produce a large amount of IoT waste and was deposited in the Lakya dam. The present study in undertaken to determine the fly ash and IOT characteristics using XRD and SEM analysis and also to determine the strength and durability of concrete made up of geopolymer coarse aggregate for M40 grade of concrete. The cubes of size 75x75x75 are prepared by mixing IoT and fly ash in proportion 70:30 respectively with varying molarity of alkaline activator as 4M, 6M, 8M, 10M & 12M. These cubes are crushed to obtain Geopolymer coarse aggregates and these aggregates are used in RCC structures to check the mechanical behavior and workability of concrete.

Keywords: Concrete, Iron ore tailing (IoT), Fly Ash, Coarse aggregates (CA), Alkaline activator, Compressive strength, Workability

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475 Human heart condition prediction using Machine Learning implementation paper

Paper ID V7I3-2222 · Pages 2452-2457 · Computer Science And Engineering

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Heart disease is one of the complex diseases and globally many people suffered from this disease. On time and efficient identification of heart disease plays a key role in healthcare, particularly in the field of cardiology. In this article, we proposed an efficient and accurate system to diagnosis heart disease and the system is based on machine learning techniques. The system is developed based on classification algorithms includes Support vector machine, Logistic regression, Artificial neural network, K-nearest neighbor, Naïve bays, and Decision tree while standard features selection algorithms have been used such as Relief, Minimal redundancy maximal relevance, Least absolute shrinkage selection operator and Local learning for removing irrelevant and redundant features. We also proposed novel fast conditional mutual information feature selection algorithm to solve feature selection problem. The features selection algorithms are used for features selection to increase the classification accuracy and reduce the execution time of classification system. Furthermore, the leave one subject out cross-validation method has been used for learning the best practices of model assessment and for hyper meter tuning. The performance measuring metrics are used for assessment of the performance of the classifiers. The performances of the classifiers have been checked on the selected features as selected by features selection algorithms. The experimental results show that the proposed feature selection algorithm (FCMIM)is feasible with classifier Random Forest Classifier for designing a high-level intelligent system to identify heart disease. The suggested diagnosis system achieved good accuracy as compared to previously proposed methods. Additionally, the proposed system can easily be implemented in healthcare for the identification of heart disease.

Keywords: Heart Classification, Support Vector Machine, Random Forest Classifier, Machine Learning

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476 Analysis and implementation of construction automation (Robotics) for glazing curtain wall

Paper ID V7I3-2213 · Pages 2458-2462 · Construction Project Management

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Glass panel (curtain-wall, glass ceiling etc.) is a type of building material for interior/exterior finishing. The

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demand for larger glass panel has increased along with the number of high-rise buildings and an increased interest in interior design. In Typical construction methods most of the construction works have been still managed by a human operator. Construction processes having number of problems cost overrun and risk factors that may cause various accidents such as falling, colliding, capsizing, and squeezing in work environments. The idea of this study to identify the new technological robots for installing large glass panels on construction sites to the reduce the time ,cost and accidents .. On evaluation, analyze and propose robotic construction methods for manipulating large glass panels in risk zones on high-rise buildings. and to identify the cost and time difference compared to human manipulate.

Keywords: Construction Industry Challenges In High Rise Buildings, Robotics, Glazing Robotics In The Construction Industry

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477 Detection of Dyscalculia using Machine Learning

Paper ID V7I3-2168 · Pages 2463-2467 · Machine Learning

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The detection of learning disabilities is still tedious and time consuming and a deep research is required for the simplification of the same. Dyscalculia is one of the Specific learning Disorders (SLD) with a specific impairment in Mathematics. Early detection of Dyscalculia is one of these tedious, time consuming tasks. Detection of Dyscalculia is carried out by conducting various tests where every individual test has to be conducted and evaluated manually as the scores of these individual tests alone are not sufficient for detection. For some cases, the scores from these tests are not sufficient. Some extra tests like Curriculum Based Test [CBT's] and/or Wide Range Achievement Test [WRAT] are to be administered. Artificial intelligence (AI) or health care involves the use of complex algorithms to emulate human cognition in the perusal of complicated medical data. The derivatives of Woodcock Johnson Tests of Achievements are used to determine learning disabilities. These tests are conducted by the doctors.

Keywords: Machine Learning, Dyscalculia, Detection, Tests

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478 Mini thermal power plant

Paper ID V7I3-2236 · Pages 2468-2470 · Electrical

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Generating electricity is present there is a shortage of fuel, oil, gas, etc. burning of those fuels causes environmental problems like radioactivity pollution, heating, etc. so this coal, oil, gas limiting resources, therefore, ensuring new technology is required for electricity generation, by exploitation thermoelectrical generators to get power as a most promising technology is free for environmental benefits in production. Thermo electrical generator will convert directly thermal heat energy into voltage. In this TEG there are not any moving elements and it can't be turn out any waste throughout power production and hence it is considered a green technology. Thermo electrical power generation supplies a possible application within the direct exchange of waste-heat energy into electric power wherever it's surplus to believe the value of the thermal energy input. This technique can have an associate most outcome. the appliance of this selection inexperienced technology in changing waste-heat energy directly into electric power will too improve the efficiencies of energy conversion systems

Keywords: Thermo Electrical Generator, Fuel, Oil, Gas

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479 Chemical and pharmacological evolution of some synthesized chalcones and hetrocyclic compounds

Paper ID V7I3-2225 · Pages 2471-2490 · Pharmaceutical Chemistry

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Pharmaceutical chemistry is focused on quality aspects of medicines and aims to assure fitness for the purpose of medicinal products. With centuries medicinal chemistry had emerged as a magnanimous field of science getting a facelift from the available natural compounds for synthesis of newer and complex molecules possessing medicinal activity while the transit from the earth to a synthetically furnished laboratory. Medicinal chemistry or pharmaceutical chemistry is a discipline at the intersection of chemistry and pharmacology involved with designing, synthesizing and developing pharmaceutical drugs. Chalcones is a generic term given to compounds bearing the 1,3-diarylprop2-en-1-one, which can be functionlized in the propane chain by the presence of olefinic, keto and/or hydroxyl group. Chalcones belongs to the flavonoid family. Chemically chalcones consisted of open chain flavonoids in which the two aromatic rings are joined by a three carbon a,ß-unsaturated carbonyl system (Dhar, 1981). Microorganisms are a heterogeneous group of several distinct classes of living beings. They were classified under third kingdom, the Prostita. Based on differences in cellular organization and biochemistry, the kingdom prostita has been divided into two groups, Prokaryotes and Eukaryotes. Bacteria and blue green algae are prokaryotes while fungi, other algae, slime moulds and protozoa

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are eukaryotes. Anti-fungal drugs are among the most frequently prescribed preparations because of their fungal activity. They are widely used for the treatment of the fungal diseases such as Candidiasis and Apergillosis. These agents prevent from fungal infection. Anti-oxidant drugs are among the most frequently prescribed preparations to prevent Oxidation.

Keywords: Synthesis, Chalcone, Hetrocyclic compound, Antioxidant, Antifungal

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480 Design and development of footwear with specific emphasis on thermal comfort using interchangeable upper components

Paper ID V7I3-2211 · Pages 2491-2553 · Footwear Sciences And Engineering

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Shoes with interchangeable upper, it is a new concept of shoes that are characterized by their upper are interchangeable which helps them to adapt for every occasion and that is transformed into light footwear and easy to save space during the trips. same size upper and soles are interchangeable. Design and development of interchangeable components of the shoe leather and leather lining combination is measured by using CAD is used to accomplish preliminary design and design details and calculations, creating 3-D models, creating and releasing drawings, as well as interfacing with analysis, manufacturing footwear. This manufacturing of changeable seasonal shoe upper is more comfortable on the human foot and intended to protect while the wearer is doing various activities. Also used as an item of decoration, fashion and footwear customization is simply unzip and re-zip the best style of the seasons easy to clean with good hygiene, separable upper and outsole, preventing smelly of shoes. lots of upper styles to be purchased separately. users purchase not only in pairs but also in ‘parts’ of the shoes, allowing users to reduce the cost of repurchase while extending the lifespan of the footwear by change only the part damaged. footwear customers are simply using unzip and re-zip their comfortable footwear style and users purchase not only in pairs but also in parts of the shoes, allowing users to reduce the cost of repurchase while extending the lifespan of the footwear by change only the part damaged.

Keywords: Interchangeable Upper, Thermal Comfort

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481 Analysis and applications of transparent wood in existing commercial building reducing electrical load

Paper ID V7I3-2212 · Pages 2554-2559 · Construction Project Management

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Electricity is one of the major energy consumption in any commercial building. There are many ways to consume energy. One of the ways is by using building material. The plywood and furniture industry is growing day by day in India for the last few years. The wood is itself made transparent and stronger. The tiny fibers that

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form the walls of channels are what makes wood so robust. These channels, being the backbone structure of wood. The approach of using transparent wood could slash energy costs by reducing there need for artificial lighting inside buildings. Transparent wood has more strength and better insulating properties than glass and other materials. It also has better biodegradability than ordinary plastic and is shatter-proof as well. This material reduces a building's net energy consumption not only by reducing the need for artificial lighting but also by generating electricity. These results are analyzed by simulating this material in a building. Comparing other materials with these materials is beneficial in many aspects.

Keywords: Wood, Transparent Wood, Glass, Energy, Cost

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482 Solar techniques to offset STP power supply in residential buildings

Paper ID V7I3-2215 · Pages 2560-2567 · Construction Project Management

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There are more energy crisis is occurring in India. We are in a situation to produce own renewable energies. Many industrial and commercial sectors have started producing their own renewable energies. Only if the residential sectors start to produce their own energies, we can overcome the energy crisis. Sewage treatment plant is one of most power consuming source in a residential building. Sewage treatment is the process of removing contaminants from wastewater, primarily from household sewage. It includes physical, chemical, and biological processes to remove these contaminants and produce environmentally safe treated wastewater (or treated effluent). The types and the energy consumption are studied in this paper. Also suitable source of energy is given as a solution to offset the power supply of STP in residential buildings.

Keywords: Sewage Treatment Plant, Energy Consumption, Residential Building, Renewable Energies

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483 Design waste water treatment plant for township

Paper ID V7I3-2235 · Pages 2568-2574 · Civil Engineering

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Wastewater treatment is a process used to remove contaminants from wastewater or sewage and convert it into effluent that can be returned to the water cycle with acceptable impact on the environment, or reused for various purposes (called water reclamation). The treatment process takes place in a wastewater treatment plant (WWTP), also referred to as a Water Resource Recovery Facility (WRRF) or a Sewage Treatment Plant

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(STP) in the case of domestic wastewater. Pollutants in wastewater are removed, converted, or broken down during the treatment process. Wastewater is any water that has been contaminated by human use. The wastewater is then used water from any combination of domestic, industrial, commercial, or agricultural activities, surface runoff, or stormwater We planning a residential township for 10, 000 populations. In this township, we design a small wastewater treatment plant. In this treatment plant, we design to treat domestic wastewater. In the wastewater treatment plant, we design units of the wastewater treatment plants.

Keywords: Waste Water, Design, Screening, Grit Chamber, Sedimentation Tank, Oxidation Pond

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484 Management of immature nonvital tooth with single-step apexification with MTA: A case report

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Apexification is a procedure for the closure of the open apex in an immature necrotic tooth. Apexification with calcium hydroxide is considered the gold standard. However, this technique is associated with certain difficulties such as multiple visits, the possibility of tooth fracture, and incomplete calcification of the bridge, poor quality bridge. Single-visit mineral trioxide aggregate (MTA) apexification has become popular over the calcium hydroxide technique. In this article, a case report, which was treated by the single visit apexification procedure with MTA as the apical plug and the rest of the canal was obturated with thermoplastisized gutta-percha technique

Keywords: Apical Barrier, Apexification, MTA

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485 Highway navigation system using light fidelity technology

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This study shows how Li-Fi technology can be used to create a smart highway navigation system. Light fidelity technology is a type of visible light communication that employs light as a medium to transmit high-speed data at a rate far faster than Wi-Fi. Here, the proposed prototype is tested using PROTEUS 8 professional software to see what potential there is for employing LiFi in highway routing. Atmega328 is used in the transmitter and

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receiver portions, and it is programmed using the Arduino IDE. The transmitter component uses high-intensity LEDs to convey high-speed data to moving cars. The LDR module is also utilized in the receiver section to detect the signal generated by the LEDs. On the receiver's LCD, information about the current location and future diversions is presented based on the received signal. As a result, this technology is better suited to automatic navigation on motorways and wide roads.

Keywords: Li-Fi, Wi-Fi, VLC, LED

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486 A Study to Investigate the security issues in IMD

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With the ever-growing rise in smart devices and their applications in most sectors, there is a need for security as the information is transmitted using a wireless medium of transmission. One of the most profound health care devices is the implantable medical devices used for monitoring and control of vital organs such as neural systems, heart, and cochlear implants. Although IMDs provide quick and cost-effective diagnostic features to the patients there exist some design constraints and software threats that need attention. There is a chance of leakage of confidential data pertaining to the person with IMD by attackers, thereby manipulating the parameters of the devices causing the patient’s life to be at high risk. In our paper, the different types of IMDs and their constraints are addressed. As the emphasis is on the security aspects of these devices, their requirements, the attack vectors, the type of attacks encountered, and the protection mechanisms implemented to date are also discussed.

Keywords: IMD, Security, Attack Vector, Encryption

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