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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 6, Issue 3 (May-June, 2020). This edition brings together 234 papers by 673 authors from 174 institutions. Each entry links to the abstract and the full paper.

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ABSTRACTS

1 The relationship between false discharge of gaseous fire suppression systems and airborne dust

Paper ID V6I3-1147 · Pages 1-4 · Industrial Engineering

Hatem Aldhubaib, Student, King Abdulaziz University, Jeddah, Saudi Arabia

Fire suppression system using gases is one of the most advanced fixed automatic fire suppression systems. The most common of fire suppression system using gases are clean agent systems which have clean extinguishing gases that are ineffective on environment, people and equipment. The famous types of clean extinguishing gases are FM 200 or called heptafluoropropane, Other type is NOVEC 1230, It belongs to a family of chemicals called halocarbons, a group which includes fluoroketones. There is another type of gaseous fire suppression system using Carbon dioxide as an extinguishing gas, but it's not classified as a clean agent. Gaseous fire suppression systems protect vital locations and critical assets. Clean agent systems and carbon dioxide systems are the most common types of gaseous fire suppression systems installed in the Company facilities. In fire case, smoke begins raised up, at least two detectors must sense the smoke to activate the system for extinguishing. In reality, not only smoke of fire can activate the system. In the last four years, only 12% of total times that the gaseous fire suppression systems activated for fire reasons. According to historical investigation reports, false discharges may occur due to many causes, most important of which are environment, human error and system trouble. This research studies these factors and focused on environmental factor that is responsible of around 68% of total activated times of gaseous fire suppression systems and it found associated correlation as well as proposes physical solutions to reduce the probability of false discharges. Linear regression analysis and ANOVA analysis will be applied.

Keywords: Suppression system, Fire safety, Clean agent, Carbon dioxide, False alarm, Releasing factors

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2 Robot control through voice recognition using LabVIEW

Paper ID V6I3-1146 · Pages 5-9 · Electronics And Communication Engineering

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As of today our goal in technology is to bring the human effort to a minimum. In the digital world, it would be cool to make a robot that obeys human speech commands and perform tasks. It will be very much fun if we can control robot with our speech. There are movies like an iron man where he makes himself a totally different network for himself which is overrated. Let's not go there and stick with what we can do. Actually, the idea of making this came from a movie called I robot, here the people uses robots for the help just by giving commands. The reason we chose voice was there are robots that work on gestures and line robots. But the

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voice control we used overcomes the flaws in these other ones. Arduino Uno board is used which is an atmega328p microcontroller-based prototyping board. The pins are all connected to their respective devices, also two dc motors are used. A power supply source is also connected which may be a battery. L293D is a speed control pin placed. In this project, the user gives specific voice commands to the robot. At the receiving side, a simple VR module receives the commands and forwards them to the Arduino on the robot. Arduino controls the movements of the robot according to received commands. The robot moves forwards, backward, left and right, and stops according to the voice commands forward, backward, left, right, and stop, respectively. By giving the commands the robot will be in movement, also time delay is given to our requirement

Keywords: Voice recognition, Automaton management, LabVIEW

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3 A review of Antimalarial agent

Paper ID V6I3-1148 · Pages 10-13 · B Pharmacy

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Malaria is an infectious disease caused by parasites. Antimalarial drugs are the main cause p.vivax,p.falciparum,p.ovule it is important to disease in the world . In this review can discuss the life cycle of malaria then pharmacokinetics, sign and symptom, mechanism of action

Keywords: Malaria, Life cycle malaria, Death rate 2002-2007

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4 Intelligent healthcare and monitoring system using Internet of Things for railway passengers

Paper ID V6I3-1153 · Pages 14-16 · Computer Science

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Among different modes of transportation, railway transportation offers reduced travel time, dependability, and excellent energy conservation. Invariably, this mode of transportation plays a vital role not only in the transportation of goods and commodities but also helps in the passenger itinerary. Many technological developments have ascended in the field of railways but healthcare is a major concern. Internet of Things(IoT)is a revolutionary technology that is being widely used to integrate advanced medical resources therebyoffering effective health care services to human beings in an effortless way. In this project, we are proposing acontroller-based technique to give first aid support in case of emergency, to the patients who are in immediate requirement of medical assistance. The abnormality is detected with the help of wearable sensors. Once the abnormality is detected, the first aid system is triggered by life. The information is transferred to the loco pilot who is in charge of operating the train and the nearest station. Thus, with the help of this system, we will be able to save the life of patients in case of an emergency during transit.

Keywords: Railways, CPR, First aid, Internet of Things, Arduino

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5 Improving the performance of patch antenna using microwave frequency bands

Paper ID V6I3-1155 · Pages 17-19 · Electronics And Communication Engineering

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The microstrip patch antennas have limited gain and bandwidth performance. In this paper, an enhancement in the gain, bandwidth, VSWR, return loss and directivity this will make antenna more compact and low profile and this parameter is achieved by slotting an ECE radiating patch and using a defected ground structure and by using proximity feeding and also by techonicCER-10 substrate respectively. The proposed antenna design with a design frequency of 2.45 GHz, (4 to 8)GHz, (8-12)GHz, (26-40)GHz has been evolved isometrically in different designs stages (design iterations). The work of single-band antenna with a slotted patch geometry offering an improved gain but limited in its bandwidth. The change in the widths of the ground, substrate, and the patch along with the addition of slots into this design results in a completely different geometry featuring multi-band operation with an improved parameter performance and the use of defected ground structure in the final stage counters the limited bandwidth operability. All the involved iteration designs have been simulated over CST 2019 for the performance parameters of the reflection coefficient, bandwidth, radiation pattern and gain, VSWR, return loss. The measured results have been found to be in close approximation to the simulated ones.

Keywords: CST-2019, Microwave band frequency, Microstrip patch, Performance parameters, Design equations, Feeding techniques, Substrate.

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6 Design and analysis of pharma tableting radial tools cavity for material optimization- A review

Paper ID V6I3-1160 · Pages 20-23 · Mechanical Engineering

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There are lot of reasons for tablet defects whether it comes from upstream or from tablet press. The poor quality of raw materials or not complying with standards, resulting in unnecessary fines leading to a host of defects. The formulation may be a source of defect if the material does not compress well or if the processing phase stated in the formulation fails to produce a good flow of powder; Tablet press operators, however, don‘t have any control over formulation and granulation. Tablet specifications are tight, and the list of possible defects is long: Variable weight, sticking, picking, capping, lamination, variable hardness, among others. This article focuses on these variations. It pinpoints the possible causes of these defects and offers advice on preventing and fixing the source of the problems. When tablet is free from visual defect or functional defect then we can say that it is an ideal tablet. The advancements and innovations in tablet manufacture have not decreased the problems, often encountered in the production, instead have increased the problems, mainly because of the complexities of tablet presses; and/or the greater demands of quality. An industrial pharmacist usually encounters number of problems during manufacturing. Majority of visual defects are due to inadequate fines or inadequate moisture in the granules ready for compression or due to faulty machine setting. Functional defects are due to faulty formulation. Solving many of the manufacturing problems requires an in–depth knowledge of granulation processing and tablet presses, and is acquired only through an exhaustive study and a rich experience.

Keywords: Punches, Compression, Tablet Tool and Die Design, Tablet Defects

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7 Border surveillance robot

Paper ID V6I3-1156 · Pages 24-28 · Robotics

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Border monitoring is a complex challenge, it requires protection all day, all night, and in all conditions. Border security is required to monitor the area every second and detect unusual activities, this is generally being carried out by human effort, but humans are prone to errors due to fatigue or exhaustion. Border surveillance robot comes up with special surveillance, scanning the area continuously in real-time. This monitoring greatly decreases the erroneous human monitoring. The proposed system provides real-time video footage andensures protection from terrorists or any kind of prohibited intrusion.

Keywords: Raspberry Pi, Arduino, Motor driver, Motors, PiCamera, Raspberry pi based Operating System

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8 Product quality by process analytical technology and quality by design- A short communication

Paper ID V6I3-1157 · Pages 29-32 · Pharmacetical Chemistry

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A Systematic approach which is based on scientific knowledge and concept of quality risk management which leads to development which emphasizes on process and product undertaking an starts with a predefined objectivesis usually called as QBD,which now aims at pharmaceutical development to design a quality product and the entire manufacturing process aiming to produce according to the standard and specifications to consistentely deliver product intended,the knowledge is purely base on scientific approach,qbd is not only limited to production but is also extended to analytical proceures and methodology,the article relates to a short communication about A QBD its approach, history and its basic elements.The product procedures now need to comply till the end of the entire procedure s rather than only at the begining and that’s where QbD plays important role throughout the method life cycle also it give added advantage is to include the procedure to discovering and minimizing the sources of viability which may lead to inferior quality and procedure and products.

Keywords: QbD, PAT, ICH, Quality Control

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9 Vision-based human activity recognition using CNN

Paper ID V6I3-1166 · Pages 33-36 · Electronics And Communication Engineering

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Human Activity Recognition (HAR) is a commonly discussed topic in computer vision. HAR implementations include representations such as health care and contact between the human and computer systems. When the imaging technology progresses and the camera system improves, there is a relentless proliferation of innovative approaches for HAR. Human activity recognition is an important component of many creative and human-behavior driven programs. The ability to recognize various human activities enables the development of an intelligent control system. Usually, the task of the Identification of Human activities is mapped to the classification task of images representing a person's actions. This Project used for human activities' classification using machine learning methods such as CNN. This Project provides the results to Identification of Human activities task using the set of images representing five different categories of daily life activities. The usage of images also webcam to find out the live activities of the users that could improve the classification results of Identification of Human activities is beyond the scope of this research.

Keywords: CNN, HAR, Prediction, Neural Networks

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10 Bi-clustering and classification-based detection for DDoS attacks

Paper ID V6I3-1170 · Pages 37-40 · Computer Science And Engineering

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There are several Machine Learning (ML) techniques that have been adopted for detecting DDoS attacks, But the attacks still became a major threat. The various existing systems worked on supervised and unsupervised ML-based approaches. Various supervised ML approaches consider both labeled and unlabeled network traffic datasets to detect DDoS attacks. Whereas, unsupervised ML approaches depends on incoming network traffic data to the attacks. Both approaches analyses using large amount of network traffic data with very low accuracy and high false-positive rates. In this presented paper, we propose semi-supervised Machine Learning approach for DDoS detection based on various algorithms orderly, Entropy estimation, Bi-clustering approach, and Random Trees decision making algorithm. The unsupervised part allows removing the irrelevant traffic data for DDoS detection which allows decreasing false-positive rates and increases efficiency. Whereas, the supervised part allows us to reduce the false-positive rates from the unsupervised part and to accurately classify the DDoS traffic data. Various experiments were conducted to evaluate the proposed approach using public NSL-KDD dataset. An accuracy of 98.66% is achieved for respectively NSL-KDD dataset, with respect to the false-positive rate of 0.31%.

Keywords: DDoS attacks, Machine learning entropy estimation, Bi-clustering, Feature selection, Randomized trees classification.

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11 Speech recognition system using Deep Neural Network

Paper ID V6I3-1151 · Pages 41-43 · Computer Science

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Speech recognition is the property of a system to identify the words spoken by the user in a scripted language and convert the data to a readable and writable format. The work carried out was able to convert the speech to text. Using the speech as instructions to perform many web-based services, system bound tasks. Deep learning with deep neural networks coded in python is implemented in this paper which makes the system more reliable, robust against noise, and with an accuracy of 70%.

Keywords: Speech-Recognition, Deep Neural Network, Python, Deep Learning, Noise-robust speech recognition

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12 Android application based vehicle driver drowsiness detection system through Image Processing

Paper ID V6I3-1158 · Pages 44-47 · Electronics And Communication Engineering

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Conduct the simulation experiment and analyze the data to search for an automatic detection system based on driver performance, human conduct, and emotions. A design of drowsiness detection systems is the goal of this venture. A driver with a Drowsy or sleepy mode can not tell when an uncontrolled sleep will take place. Injury crashes in fall asleep are very grave. Accompanying fatigue or drowsiness- related crashes[1] can result in 1.200 deaths and 77.000 injuries per year in recent statistics. Driver fatigue is responsible for more than 25 percent of road accidents[2]. Through alert the driver about his / her drowsiness, we will can the risk of an accident. The main concept of this system is the simulation of somnolence detection with image processing and the detection of somnolence. Furthermore, the person authorized to locate the vehicle can be notified by GPS. This system helps avoid most injuries, thereby protecting human lives and increasing personal suffering. With this system, the car driver's eyes are monitored by camera, and we detect driver drowsiness symptoms early enough to avoid accidents by developing an algorithm. Within a specified time interval the car driver's eyes are closed by more than80 percent. This project will help in advance in detecting driver fatigue and give alarming signals in the form of a sound and an LED blinking. The alarm is manually not immediately deactivated. A deactivation key is used to trigger the alert for this reason. The machine assumes that the operator sleeps and sends a warning message.

Keywords: Drowsiness Detection, Advances Vehicle Safety, Eye Tracking System, Track The Location (GPS), Warning Output (Alarm and Led Blinking), Real-Time Drowsiness Detection

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13 Evaluation of bucking characteristics of thin cylindrical shells with cutouts for aerospace applications

Paper ID V6I3-1168 · Pages 48-50 · Aerospace

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The aerospace industry finds a wide application of thin cylindrical shells. Cutouts in various structures are also an important application particularly in aircraft and aerospace industry which is a significant area of research today. The load-carrying capacity of these structures is determined by the buckling characteristics of that specimen mainly in aircraft since the primary cause of failure is elastic buckling. Even though cut-outs in these structures decrease the buckling strength due to the stress concentrations, it cannot be avoided in many engineering applications particularly in aircraft components. Cylindrical shells made of mild steel are considered for the study. In this paper the buckling behavior of the shells made without cutouts, with cutouts, and with semi cutouts of constant diameter are studied.

Keywords: Thin cylindrical shells, Cutouts, Buckling behavior, Aerospace applications

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14 Research and thinking of smart residential building technology

Paper ID V6I3-1174 · Pages 51-54 · Smart Residential Building

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Smart Residential Building is emerging technology growing continuously now. It integrates of the many new technologies through building networking for rising human’s quality of living, therefore there have several comes researching in various technologies to use to the good home system . Accordingly, this paper reviews various topics on smart building/home technologies from surveying for smart residential building /home research project. This research paper also deals with the history and the concept of smart residential buildings. Smart buildings or at least discussion of the concept originated in the early 1980s.

Keywords: Smart Residential Building, Organizational Design, Smart Residential Building Network, Smart Door Lock

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15 Overcoming challenges at workplace

Paper ID V6I3-1176 · Pages 55-57 · Management

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Workplace challenges are inevitable - they are physical, mental and environmental. Workplace is full of challenges and uncertainties and as an employee one should accept and agree workplace challenges is integral

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part of employment. This article discusses on few of the challenges that prevail in the workplace and how to overcome it. Workplace issues are a common stress for many. This article discusses on the common challenges that prevails at workplace and the ways to overcome it.

Keywords: Workplace, Challenges, Employment

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16 Sentiment Analysis on Mobile Reviews using Naive Bayes Classification

Paper ID V6I3-1181 · Pages 58-60 · Computer Science And Engineering

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Now a day, due to increasing technology we can get the opinions of the users all over the world using web mining. People are always curious and show a keen interest in what people perceive various aspects of living and non-living things. In order to understand and analyze the various traits and varying personalities, opinion mining is needed. The main objective of Sentiment Analysis on Mobile Reviews using Naïve Bayes Classification is to develop a system that mines the positive as well as negative reviews of users. For this purpose, we first collect the data from the famous e-commerce websites and extract the reviews posted by users related to different mobile handsets. In this process, we define some common features like Camera, Battery Life, Overall Performance, and Design and then find related reviews as a dataset for the analysis purpose. Negative and Positive words that are commonly used for expressing opinions are also collected. This system provides a sentimental analysis on various smartphone reviews diving them positive or negative or neutral using Naïve Bayes Classification. This is basically being obtained by studying and analyzing the reviews posted by different users. Analysis of different words coupled in a sentence represents various sentiments and experiences of users and impacts the products available in the market. This analysis compiles a structural modeling approach and Bayesian Interface System to identify the polarity of the opinion which subsequently classifies positive and negative opinions.

Keywords: Sentimental analysis, Opinion mining, Naive bayes classification, Bayesian interface system.

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17 Security issue in watermarking: An overview

Paper ID V6I3-1144 · Pages 61-65 · Computer Science Engineering

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This paper provides the conceptual framework on image watermarking which is widely used for security purposes within the epoch of data and Communication Technology. Image watermarking is predicated on the concept that the signal may carry several different watermarks at the identical time. The signal is also audio,

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pictures or video. A security issue in watermarking is because of the enlargement of the internet within the present paper the primary phase detailed description of watermarking has been on condition that data set are prepared on which watermarking technique is executed. In the second phase detailed working of the various techniques of image watermarking have to locate a selected watermarking technique which is able to provide appropriate ends up in term of PSNR and interval and various attacks are tested on images so implemented method must stand against various attacks. In the third or final phase reverse processes are executed to extract host and watermark images. There are many viable attacks. Spotting is an algorithm that is applied to the attacked signal to infusion the watermark from it. During this research paper, it focused to increase the worth of PSNR because in existing techniques It's clear from the assessment that the proposed technique is long way stable than the prevailing technique.

Keywords: Watermarking, Cover image, Attacks, PSNR, DFT, DCT, Security

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18 C-Shaped canal management in endodontics

Paper ID V6I3-1173 · Pages 66-69 · Conservative Dentistry And Endodontics

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Introduction: Thorough knowledge of the root canal morphology is essential for successful endodontic therapy. C-shaped canal configuration is commonly seen in mandibular second molars. These canals are challenging to negotiate, debride, and obturate because of the high incidence of anastomoses, lateral canals, and apical deltas. The inability to detect and debride C-shaped canal anatomy can lead to endodontic failure. Case report: This case report highlights the management of a case of C- shaped canal configurations using thermoplastics gutta-percha technique. Conclusion: Complex intricacies and diverse morphology of C shaped canals can be managed with advanced irrigation and obturation techniques.

Keywords: C-Shaped canal, Thermoplasticised gutta-percha, RC Cal, Ultrasonic tips

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19 Detecting hate speech and offensive language on Twitter using Machine Learning

Paper ID V6I3-1195 · Pages 70-72 · Computer Science Engineering

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In this work, we argue for a focus on the latter problem for practical reasons. We show that it is a much more challenging task, as our analysis of the language in the typical datasets shows that hate speech lacks unique, discriminative features and therefore is found in the ‘long tail’ in a dataset that is difficult to discover. We then

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propose a Deep Neural Network structure serving as feature extractors that are particularly effective for capturing the semantics of hate speech. Our methods are evaluated on the largest collection of hate speech datasets based on Twitter and are shown to be able to outperform state of the art by up to 6 percentage points in macro-average F1, or 9 percentage points in the more challenging case of identifying hateful content. This aims to classify textual content into non-hate or hate speech, in which case the method may also identify the targeting characteristics (i.e., types of hate, such as race, and religion) in the hate speech.

Keywords: Data set and preprocessing, Classification of Tweets, Feature extraction, Social network analyzer

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20 The role of indexing agencies and parameters in research

Paper ID V6I3-1207 · Pages 73-75 · Psychology

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This paper addresses the indexing and its importance to a researcher—a report of indexing and indexing parameters of various indexing agencies. Today, various abstracting and indexing services are available. Most are affiliated with institutions (e.g., PubMed held at the National Institute of Health by the United States National Library of Medicine), and others are provided by publishers (e.g., Scopus by Elsevier).

Keywords: Indexing, Indexing parameters, Abstracting, Institution, Publication

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21 Strengthening of weak soil against soil liquefaction

Paper ID V6I3-1208 · Pages 76-78 · Civil Engineerinig

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Liquefaction is one of the main concerns of the geotechnical network just as those associated with the building and advancement of the basic establishment. Liquefaction is a phenomenon in which the quality and stiffness of soil are diminished by earthquake shaking or another quick loading. Liquefaction and related phenomenon have in a charge of colossal measures of damage in historical earthquakes tremors the world over.

Keywords: Liquefaction, Geotechnical, Soil, Earthquake, Soil stabilizer, Seismic, Bearing capacity, Building, Foundation

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22 Utilization of STP Sludge and sugarcane pressed mud to manufacture bricks

Paper ID V6I3-1211 · Pages 79-82 · Engineering

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In this study STP sludge and sugarcane press mud is used as a replacement material for fly ash brick. This study is done to reduce the STP sludge and sugarcane waste dumping in the earth to protect the environment from hazardous and also increment of low-cost brick towards the construction industry for the sustainable development. Bricks are the building material used for the construction of walls, pavements and other constructions. In previous days mud blocks were being used in construction but now clay bricks are used. While manufacturing the clay bricks the Carbon dioxide emission is more. Many attempts have been made to overcome these problems. So the industrial waste materials and the by products are used in the manufacturing of bricks. Here we have used the municipal sewage treatment plant sludge (STP) and the sugarcane waste produce i.e. press mud with fly ash and lime so that we get the binding and compressive strength in good amount. Here the bricks are done without burning, so the greenhouse gas emission is minimized. The press mud is a material which is obtained from the clarification of sugar. The disposal of this waste into the environment causes the land pollution so this study will be a better solution for this problem. The municipal sewage sludge and sugarcane press mud are added at different percentages such as 10, 15, 20 and 25.

Keywords: STP sludge, Sugarcane press mud, Fly ash, CO2 emission

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23 The effect of friction on heat generation between surfaces

Paper ID V6I3-1216 · Pages 83-88 · Physics

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Friction is present in every aspect of the world where two objects move past each other. In some cases, they are useful and almost indispensable, like helping us walk, or letting cars slow down. In others, they are a nuisance, especially in motors and other mechanical applications which try to reduce friction as much as possible. However, it is an essential phenomenon to consider, especially in the design and construction of heavy machinery, cars, airplanes, and even robots. The heat has also been important to mankind since the beginning. It helps us keep warm and cook food. In this paper, I aim to test the effect of friction on heat generation between two surfaces. Research Question: How do the materials or surfaces involved in friction affect the heat generation due to friction from a grinder with surface velocity 26.3 ms-1 and an external force of 0.37N?

Keywords: Friction, Heat

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24 Subsoil water drainage system for building foundation structure

Paper ID V6I3-1220 · Pages 89-91 · Ground Water

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When the foundation is below water table level some amount of uplift pressure is applied on the surface of foundation, therefore current work is going on to remove or zero the uplift pressure by providing a subsoil water drainage system on building foundation. By using this technique, Cost control by making the uplift pressure zero resulting in less thickness of the raft slab. Saving in excavation, concrete, and steel, Time-saving & collected water in the sump is used for flushing purpose and landscaping.

Keywords: Subsoil, Drainage, Water table, Subsoil water content

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25 Anarchism and Political Obligation

Paper ID V6I3-1139 · Pages 92-92 · Political Obligation

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The political Obligation behind Anarchism was somewhat elusive all along. There have undoubtedly been almost as many anarchist values as there have been anarchists, but they can be broadly separated into two groups for analysis: the socially positive, and the socially negative. In several sources, the positive anarchist values have originated in William Godwin, but the negative aspects can be chiefly be traced to the influence of Max Stimer.

Keywords: Morality obligation moral theory anarchism

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26 Determination of fluoride content in water in Vellore District

Paper ID V6I3-1193 · Pages 93-97 · Chemical Engineering

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Drinking water gracefully and sanitation in India keep on being deficient, regardless of longstanding endeavors by the different degrees of government and networks at improving inclusion. The degree of interest in water and sanitation, but low by global guidelines, has expanded in size during the 2000s. For instance, in 1980 country sanitation inclusion was evaluated at 1% and arrived at 65% in 2017. Additionally, the portion of Indians with access to improved wellsprings of water has expanded essentially from 72% in 1990 to 88% in 2008. Simultaneously, neighborhood government foundations accountable for working and keeping up the framework are viewed as frail and do not have the monetary assets to complete their capacities. What's more, just two Indian urban areas have persistent water gracefully and as indicated by a gauge from 2008 about 69% of Indians despite everything need access to improved sanitation offices. An investigation by Water Aid

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evaluated upwards of 157 million Indians, or 41 percent of Indians living in urban regions, are live without sufficient sanitation. India comes in the lead position all around for having the best number of urban-staying occupants living without sanitation. India beat the urban sanitation emergency, has the biggest number of urban tenants without sanitation, and the most open defecators with more than 41 million individuals.

Keywords: Fluoride, Water Fluoridation, Fluoridation, Total Dissolved Solids

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27 LabVIEW controlled antenna positioner

Paper ID V6I3-1196 · Pages 98-101 · Electronics And Communication Engineering

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An antenna rotator is a device used to change the orientation, within the horizontal plane, of a directional antenna. Most antenna rotators have two parts, the rotator unit, and the controller. The most commonly available antenna positioners are commercial rotators and sometimes some rotators are even complex to design and operate. Typically, Antenna Positioners are used to align larger antennas such as those used in Satellite Ground Stations to a fixed position. In contrast, Antenna Rotators and Antenna Rotating & Positioning Equipment are used for positioning of UHF/VHF communication antennas. The proposed design includes an azimuthal and elevation angle rotation system and is also capable of moving up to the accuracy of 1.8 to 0.9 degrees per step. The design also includes a user interface that is useful for easy control of the antenna positioner. NSI-MI Technologies rotary positioners are engineered to provide the optimum balance of outstanding performance, maximum power-density, and excellent application flexibility. In the center of the reference picture, the accompanying image includes an Az-El installation rotator, so named for its controlling of both the azimuth and the elevation components of the direction of an antenna system or array. Such antenna configurations are used in, for example, amateur-radio satellite or moon-bounce communications. ARA offers an ever-expanding line of positioning systems designed to satisfy the most demanding applications, including integrated antenna systems and RF systems. ARA positioning systems have been used successfully in both military and civilian systems and are successfully installed in ground-based, shipboard and airborne applications. The current rotator or positioner design aims to make use of lightweight payloads. In HAM radio applications, generally small weight antennas such as Yagi antennas, stacked Yagi antennas, antenna arrays, testing of microstrip antennas, and some RF chamber applications. This small-scale antenna positioner can be used for both indoor and outdoor applications. The indoor applications may like testing od antenna in the RF chambers and the outdoor applications involve satellite communications, weather image tracking, etc., and these outdoor applications are the most important in all.

Keywords: Antenna positioners, VHF/UHF antennas, Azimuthal and elevation angles, UI-user interface, RF chamber, Ground stations

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28 Nutrition – The key element in treatment of pressure ulcer

Paper ID V6I3-1202 · Pages 102-104 · Nutrition

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Pressure ulcer healing is a complex process and remains a major healthcare problem despite the advances in the field of medicine. Inadequate dietary intake has been identified as a key risk factor for both the development and healing of pressure ulcers. It is very much essential to make sure the consumption of adequate calories, protein, fluids, vitamins, and minerals that supports the healing process. The inclusion of a variety of foods from five food groups will help in preventing /treating pressure ulcers. This article is focused on adult nutrition needs including hydration to avoid or treat pressure ulcers.

Keywords: Pressure ulcer, Optimum nutrition, Wound management, Dietitian, NCP

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29 Smart Spectacles

Paper ID V6I3-1175 · Pages 105-107 · Ece

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This paper proposes a method at developing a complete system in which Text can be converted to Speech, Text file can be converted to Speech, Text in various Languages can be converted to Speech, Image can be converted to Text and Image can be converted to Speech using PYTHON as a programming tool. The Motivation behind developing this system is to combine various modules using modular approach in order to get a simple yet effective way for differentially abled people to interact with others and thereby making the society better

Keywords: Text-to-Speech, Python, Raspberry Pi

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30 A review – To treat the solid waste or organic waste by using anaerobic digestion process

Paper ID V6I3-1164 · Pages 113-117 · Civil Engineering

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Abstract Biogas is very essential and beneficial gas. Biogas is to be produced from raw material like vegetable

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waste, fruits waste by break down of organic waste in the absence of oxygen to generate methane and carbon dioxide. Biogas is a mixture of methane, carbon dioxide (CO2), H2S, and other gases. For the generation of biogas active digestion process is to be used. Energy or biofuel generation from organic waste is economical and easy. Generally in rural areas biogas is to be generated. The generation of vegetable waste is increasing day by day from every household. Vegetable waste can be used for the bio methanation process which is anaerobic digestion using biogas plant. The biogas plant is a simple technique to produce methane. The biogas is a nonconventional source called gobar gas. In rural India, the daily waste obtained from animals is still used as raw material for biogas plants called “Gobar Gas” daily. Anaerobic treatment systems are divided into 'high-rate' systems with biomass retention and 'low-rate' systems without biomass retention.

Keywords: Anaerobic digestion, Biogas, Energy, Vegetable.

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31 Review on vision based fire flame detection

Paper ID V6I3-1198 · Pages 118-120 · Computer Science And Engineering

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The break-out of a fire should be determined rapidly in order to prevent material damage and human casualties. Traditional low-level feature-based methods have a high rate of false alarms and have low detection accuracy. To overcome these issues, deep learning models for fire detection at early stages during surveillance are used. Smaller convolutional kernels and fully connected layers of the deep learning models help to do classification effectively by reducing the computational requirements.

Keywords: Flame detection, Vision-based systems, Deep CNN based classification

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32 A biochemical approach towards sealing viral replication pathway and also simultaneous approach to dampen immune response

Paper ID V6I3-1209 · Pages 121-125 · Bio Technology

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Apart from all three domains of life [namely: archaea, bacteria, and eukaryotes], we might have come across a suspected molecular organization, whose existence as a living organism is still in question. This is living as well as could be said to be non-living is still a dilemma. It was really a fascinating thing for a student having an interest in searching for scientific causes and loves to study about organism there behavior and the way they interact environment, during our days of high school when we had just a glimpse of introduction about an organism that could be considered as living [i.e.; the reproduction is observed] only when it’s inside a living cell or so-called host.

Keywords: Viral Replication, Dampen Immune Response, Biochemical

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33 Horizontal and vertical surface cleaning robot

Paper ID V6I3-1226 · Pages 126-129 · Electronics And Telecommunication Engineering

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In this present era, people lead a very busy life. People in cities have irregular and long working times. In such situation person always find a ways of saving time. Thus, manual work is taken over a by robotics now a days. This paper presents an autonomous robot for both floor and wall cleaning application. Since anything can run easily on horizontal surface, the main purpose of the present study is to develop a vertical cleaning robot for a single large windowpane such as a show window. It works on the principle, if we draw air in the suction cup using vacuum pump then it can stick to the surface.

Keywords: Arduino, Vacuum Pump, Suction Cups, Rack, Pinion

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34 Survey on zone-based speed controller of vehicle using IoT

Paper ID V6I3-1231 · Pages 130-132 · Internet Of Things

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Nowadays the drivers drive vehicles at high speed even in speed limited areas without considering the safety of the public. Most of the road accidents occur due to over speeding and traffic violation. The traffic police are not able to control them with full effect. Also, it is not practical to monitor these areas throughout. Even though we have signboards at all the riskier zones like schools and hospitals but most of the drivers won't look into them. Our project paves way for controlling the speed of the vehicles within certain limits in restricted zones without interruption of the drivers. Here, we make a survey on the model based on wireless technology by which we will be able to control the speed of the vehicle. This project composed of two separate units namely the zone status transmitter unit and the receiver unit. The RFID reader is attached along with the vehicle and the RFID Tag with these Zones. These tags are programmed to send a coded signal when the reader comes in proximity. A controlling module in the vehicle then takes the decision and control the speed accordingly by making use of the pulse width modulation concept Whenever the vehicles enter into these zones their receivers will receive this code and the speed of the vehicles is controlled automatically with the help of the speed controller attached to microcontroller unit present inside the vehicle. The tags are placed at the beginning and the end of the regions for which the speed should be reduced.

Keywords: Arduino mega, LCD display, PWM L298n motor driver, RFID tags, Bluetooth module hc05

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35 Review on open access journals

Paper ID V6I3-1240 · Pages 133-134 · Information Technology

Mamatha Varier, Research Scholar, CHRIST (Deemed to be University), Bengaluru, Karnataka

Open Access Journals intends to make available data and publication of scholarly information free of cost to its users. The funds for operating the same are obtained from the charge levied from authors of the manuscript. The article outlines the history and development of open access journals. It also gives a description of the various aspects and functioning of open access journals. There are a number of open-access journals that operate and charge different amounts for publishing articles. Some are of the view that publishing in open-access is not worth since it is paid by the authors and forms an obligation on the part of the publisher to publish the article. The only method the open-access journals can and have adopted for proving them wrong are maintaining an expert panel of editors and reviewers with strict reviewing policies.

Keywords: Open-Access Journals, Review, Article processing charges, Author, Publisher

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36 The relevance of indexing in scientific research

Paper ID V6I3-1227 · Pages 135-138 · Law

Hannah Divyanka Doss, Research Scholar, CHRIST (Deemed to be University), Bengaluru, Karnataka

Any scholar would want to gauge the impact of his work on the scientific and intellectual community. This can be done by ascertaining how many times his work has been cited and utilised by other researchers. This also reflects the quality, authenticity of his work and if it is being used as a basis for any future study. Overall, this evidences the importance of indexing and agencies of indexing. They help organise and track the usage of papers and other forms of publication. Therefore, for every researcher, indexing is imperative either when publishing or reviewing articles. The study intends on reinstating the concept of Indexing and Indexed Journal and their importance in scientific research. The study comprises of six folds- the first fold highlighting the concept and its significance, the second, tracing back the history of indexing. The third fold deals with the prominent indexing agencies. The fourth and fifth fold deal with the parameters of indexing and review methods, respectively. Lastly, the sixth fold is the conclusion of the paper.

Keywords: Indexing, Indexing Agencies, Indexing Parameters, Review Methods

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37 A novel approach for football player classification

Paper ID V6I3-1224 · Pages 139-148 · Data Mining

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There different player's selection strategy which is used for IPL and other League. But presently for the football team selection and football league it is also taken into place to the paper deals with providing a novel ideas for the player selection by the probabilistic method and using the data mining techniques for where to propose a

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novel system for the similarity between the players and dissimilarity calculation between them and also how the two players are correlated with each other so that the team chances could we want for the same the football system deals. It finally controlled by providing the in time reduction which is an important parameter for any website to be needed with this technique can be used for the player selection in an efficient way

Keywords: Football Player Selection, Correlation Lift, Data Mining, Team Selection

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38 A comparative study on satellite refueling in electric propulsion systems using organic polymers

Paper ID V6I3-1221 · Pages 149-153 · Aerospace Engineering

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In the present technology of satellites, Satellites are highly demanded by their utility in diversified applications. For these applications, a million dollars of expenditure have been incurred per year for developing and launching the satellites. This ranges from a minimum of 75 million dollars to a maximum of 1.5 billion dollars by different countries with a life span of satellites from a few months to 10 years. The short comes of this life span due to the fuel consumption of satellites. These problems in terms of increasing the life span have been answered in the year 8 July 2011 by NASA by introducing different concepts of refueling techniques. These techniques incur 16 percentage of total satellite cost on average to enhance the life span of existing satellites. In this paper, we performed a comparative study of different refueling techniques with their basic features with the introduction of organic polymers which involves polymers structure, power generation, and thruster capabilities. This comparative analysis has been suggested the best possibilities to increase satellite lifespan and save the launching costs.

Keywords: EMPA, Robotic refueling, Piezoelectric polymer, Ion thruster, Duel stage propulsion system

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39 Design and estimation of Intze tank

Paper ID V6I3-1245 · Pages 154-157 · Civil Engineerinig

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Water tanks are very significant components of a lifeline. The design should be based on the worst possible combination of loads, moments, and shears arising from vertical loads and horizontal loads acting on it. They

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are grave elements in municipal water supply, fire fighting systems, and many Industrial amenities for the storage of water. From the very upsetting experiences of few earthquakes in India, RCC elevated water tanks were profoundly damaged or collapsed. This might be due to the lack of knowledge regarding the proper behavior of a supporting system of the tank. The main aim of this study is to understand the significance of considering earthquake loads in design & the behavior of different staging under different loading conditions type of staging to give an enhanced performance during an earthquake.

Keywords: Intze tank, Coulombs, Staging system, Loading on structure, IS code

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40 A study on the history of indexing in India

Paper ID V6I3-1250 · Pages 158-164 · Research Writing

Arundhathi B., Research Scholar, CHRIST (Deemed to be University), Bengaluru, Karnataka

A study on indexing extends to a wide arena of the process of publication, citation, information retrieval, information storage, and knowledge management as a whole. The following research is inspired by the culture & practice of valuing knowledge in India. The study has been done on the backdrop of the evidence that historians provide about the rich knowledge and advancements that India contained during ancient times. Invasions and colonializations have, to a great extent been an impetus in its loss along with the passage of time and generations. The study here has been a product of extensive reading, analysis, and research into ancient knowledge and its management systems. The findings and observations have been presented in the order of the eras in Indian history. The evidence collected from the first-hand sources adds more value to the observations.

Keywords: Indexing, Information retrieval, Information, Ancient India, History, Knowledge

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41 Indian student’s awareness and need for help to use open access journals

Paper ID V6I3-1232 · Pages 165-167 · Social Sciences

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This study is undertaken to evaluate the awareness and utilization of open access journals amongst Indian students. It was conducted amongst 44 participants belonging to the Bangalore and Chennai region. The results show us that awareness is high & a large number of students access open access journals to do their research assignments. Most importantly a large majority of students expressed that it would be beneficial if their teachers helped them with information to use open access journals.

Keywords: Awareness, Utilization, Open access journals

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42 Analyzing the QoS metrics of DSR

Paper ID V6I3-1214 · Pages 168-172 · Computer Science And Systems Engineering

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Mobile ad hoc networks have gained light in recent years and provide significant scope for research. Its various aspects considered for research include routing, bandwidth limitations, packet delivery ratio, etc. Researchers have proposed numerous routing algorithms for ad hoc networks among which, the DSR protocol is one effective protocol designed for MANETs. This protocol is highly adaptive to the topological changes in a network during data transmission, which enables the network to be self-configuring and self-organizing irrespective of the existent infrastructure. This paper explores the underlying concepts of the DSR protocol and analyzes its performance, along with a brief introduction to the wireless networks and routing protocols.

Keywords: Routing, Network, Ad-Hoc, Wireless Networks, Throughput, Nodes, Communication, DSR, MANETs

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43 A study on the concepts of indexing and its benefits to research

Paper ID V6I3-1247 · Pages 173-176 · Management

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Indexing is a database of higher scientific journals having a good track record of maintaining the ethics and quality in terms of publication. It is the process of creating indexes for record collections. Having indexes allows researchers to more quickly find records for specific individuals; without them, researchers might have to look through hundreds or thousands of records to locate an individual record. It also represents a number referring to a list of terms, definitions, topics, etc. arranged in alphabetical order in order to efficiently guide the readers to the desired information within the content. Indexing facilitates the organization of literature in such a manner that makes the document of interest easily identifiable by the readers. Indexing journals are considered to have a higher quality when compared to non-indexed journals. It is a collection of information stored on a computer or on a set of cards in alphabetical order and hence it helps the reader find information quickly and easily. A useful index is considered as a list of words and phrases used in a publication and is also an organized map of contents, including cross-references, a grouping of like concepts, and other intellectual analysis. The purpose of indexing is to have faster learning, acknowledgment, prominence of persons, subjects, etc. A professional index must act as a liaison between the text and its ultimate user. The study is focused on the concepts of indexing and its benefits to research.

Keywords: Indexing, Indexing parameters, Indexing agencies, Open access journals, Review method

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44 A study on the indexing concepts and its benefits in research publication

Paper ID V6I3-1248 · Pages 177-180 · Management

Paramita Choudhury, Research Scholar, CHRIST (Deemed to be University), Bengaluru, Karnataka

An index is essentially a roadmap. Indexing is a way to optimize the performance of a database by minimizing the number of disk accesses required when a query is processed. Indexing is essential to the reputation, accessibility and consequently, it impacts the journal articles. Many scholars prioritize referencing and submitting to journals that are included in leading indexes because indexing is a marker of journal quality. This a study focusing on the indexing concepts and its benefits in research publication.

Keywords: Indexing, Journal, Research, Publication

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45 A closer look on indexing and indexing parameters

Paper ID V6I3-1254 · Pages 181-185 · Mathematics

Suman Babu, Research Scholar, CHRIST (Deemed to be University), Bengaluru, Karnataka

This paper gives an in-depth knowledge about indexing and indexing parameters. A study of indexing and detailed calculations of indexing parameters like Impact Factor, Site score, h-index, m-index, g-index are really helpful to the new-comers in the area of research. The paper suggests some steps to get a journal to be indexed. The paper would try to have a closer look on indexing and indexing parameters.

Keywords: Indexing, Indexing Agencies, Indexing Parameters

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46 The idea of journal indexing and the concept of reviews: Theoretical perspectives

Paper ID V6I3-1253 · Pages 186-189 · Research

Nikhilraj K., Research Scholar, CHRIST (Deemed to be University), Bengaluru, Karnataka

This article discusses the possible utility of a citation index providing a new approach to the management of scientific literature with a view of the historical aspect. It appears to mix content that can never be gathered by the normal indexing of subjects by way of its different construction. It is best defined as an index of connections and offers the consumer the versatility it needs. Suggestiveness by association-of-ideas is given by traditional topic-index, but only under the limits of a single subject heading. The Index would be worth a collection effort only though it was not used elsewhere for a citation index than to mitigate the citation of bad results. The article ends with observations on the different types of quote indexing. The key aim of this article is to summarize the citation indices and the peer review technique article often includes views among the scholars, as writers, editors and referees seem likely to focus on maintaining the refereeing system in most disciplines. It reviews some novel approaches to study evaluation in this article. The Article addresses the pros and cons of the review and concludes with a view for the future.

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Keywords: Indexing, Peer review, Open-access journal, Agencies of indexing

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47 River training works of Gomti River 3k.m. downstream from Indira Canal Aqueduct: A case study

Paper ID V6I3-1249 · Pages 190-194 · Civil Engineering

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River training work between on Gomti River 3 K.M. downstream from Indira Aqueduct Lucknow. There are various techniques for River Training Works and the suitable one is selected according to the characteristics of soil and river flow.

Keywords: River training works, Meandering, Spurs, Guide banks, Groynes

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48 Effects of tobacco dust on bidi rollers

Paper ID V6I3-1252 · Pages 195-197 · Biochemistry

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The aim of study effects of tobacco dust on bidi rollers. Environmental pollution may affect human beings directly or through its physical objects, possessions or opportunities for recreation and appreciation of nature. Atmospheric pollutants like dusts, fumes, and mists cause air pollution which adversely affects human health and creates annoyance to human eyes, irritation to nose and throat, and ill effects to human health through headache, allergies, nausea and similar effects. Tobacco particulate air pollution is one of the important problems in tobacco processing industries. Bidi rollers inhale tobacco dust and volatile components present in the work environment. Inhalation of tobacco dust health effects such as asthma, burning eyes conjunctivitis, chronic obstructive bronchitis and allergic respiratory or nasal diseases. Control Group - Healthy Controls – 100

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subjects. Normal healthy age matched female subjects (not exposed to any occupational dust) were selected as controls. Female bidi rollers - 100 were considered as the subject of this study (exposed to occupational tobacco dust with work experience 10-40yrs). Information was collected by visiting the house of each bidi roller. The study subjects were interviewed and a questionnaire was filled for each subject, which included details about their age, educational qualification and health problems such as headache, nausea, irritation and dryness of throat, weakness, sneezing faced by them. The present study indicates that women bidi rollers face numerous health problems due to direct inhalation of tobacco dust such as asthma, burning eyes conjunctivitis, chronic obstructive bronchitis and allergic respiratory or nasal diseases.

Keywords: Tobacco, Health effects bidi rollers

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49 Depression analysis using facial feature and local binary pattern

Paper ID V6I3-1260 · Pages 198-201 · Information Technology

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Depression is one of the most serious problems faced by today's world. At the same time, it is the most difficult mental disorder to detect. Symptoms of depression vary from person to person. So it's difficult for a doctor to diagnose and treat it. And most of the methods to diagnose depression depend on an interactive session with the patient or on the basis of behavioral observation. It is observed that most of the time patients don't give correct answers to the question asked or tries to behave normally in front of the doctor, making it difficult for a doctor to diagnose depression. To overcome all these difficulties we have developed an automatic depression analysis method that uses dynamic facial landmark descriptor. This method gives the Depression score, on the bases of which we decide a person is depressed or not. As it does not involve any human interference such as clinical interview, doctor's interpretation, it gives accurate results.

Keywords: Depression, Local binary pattern, Depression score, Histogram.

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50 Design of articulated robotic arm using composites

Paper ID V6I3-1262 · Pages 202-207 · Mechanical And Material Engineering

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A robot is a machine, especially a programmable one by a computer, capable of carrying out a complex series of actions automatically. Most of the robots are made of metals and it's alloyed which makes them heavy as compared to that made of composites. The aim of this study is to design and analyze the articulated robotic arm made of composites (Nylon 6 6). The study was done to design an articulated robotic arm assembly for a

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given work volume, analyze it for load carrying conditions, and show the load, stress, and deformation results for Nylon 6 6 material.

Keywords: Robots, Composites, Nylon, Carbon fiber, Design, Analysis, Scope

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51 Indexing and abstracting – Concept and review methods

Paper ID V6I3-1264 · Pages 208-211 · Commerce

Angel Clare Antony, Research Scholar, CHRIST (Deemed to be University), Bengaluru, Karnataka

Indexing is the numbering, counting or identifying list of things or collection of information. Index can also be known as list, listing, register, catalogue, record, archive, inventory, dictionary and directory. Initially before 1440 there were handwritten manuscripts. The modern printing started from the year 1440. Abstracts are important tools for information users, especially as they strive to keep abreast of explosion of information. Both indexes and abstracts help to assist users locate information items given to them by a reference or a colleague. They help to find application of some new procedures or discovery in their field and also to find recent trends or ideas in the field. Reviewing is done by experts to judge its quality before publication. There are different methods used to review articles. Different sections of the journal is reviewed by different people The review methods vary from journal to journal.

Keywords: Indexing, Abstracting, Review Methods

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52 Impact of lockdown due to COVID-19 on physical and mental state of population of West Bengal

Paper ID V6I3-1233 · Pages 212-216 · West Bengal

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The outbreak of coronavirus diseases has created a global health crisis and it has a deep impact on ours everybody lives. Pandemics are associated with a range of factors including economic stress, disaster-related instability, exploitative relationship. This research paper was an attempt to know the situation of lockdown in West Bengal on the physical and mental health condition of the population within the home with special reference to women and young groups of people.

Keywords: Quarantine self-isolation prevention anxiety endemic lockdown social distancing

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53 Geotechnical evaluation of mining waste (red mud) by utilizing amenders

Paper ID V6I3-1259 · Pages 217-219 · Civil Engineering

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Red mud is a waste item from the Alumina business and it makes a great deal of wellbeing risks to the nature, in the event that it is left arranged without vital safety measures, subsequently safe removal practices and reuse of the item are one of the arrangements. This report is one of the pieces of using the red mud in a superior and monetary way. In this paper the red mud is utilized as an elective development material after remediation by Amenders, for example, flyash. This gives a savvy balance strategy just as plenteous material which can use in Civil Engineering Works.

Keywords: Red mud, Amenders, Gradation, Atterberg Limit, CBR value

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54 Design and estimation of bio-toilets

Paper ID V6I3-1271 · Pages 220-222 · Civil Engineering

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Bio-toilet is a type of dry toilet where human waste materials are decomposed by aerobic bacteria. In India, generally, most of the population construct a simplified version of toilets, in which waste collected and directly transferred to men holes, without any treatment. This causes contamination in both the soil and the environment. It is an eco-friendly waste management solution. It is affected by temperature, moisture content, amount of water, and oxygen availability.

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Keywords: Bio-toilet, Dry toilet, Decomposed, Aerobic bacteria, Eco friendly, Contamination

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55 Journal publications, compartmentalization and academic excellence: Have we tend to choose a proper path

Paper ID V6I3-1277 · Pages 223-226 · Social Work

S. Daniel, Student, CHRIST (Deemed to be University), Bengaluru, Karnataka

Journal communications are revolutionized by the evolution of the construct of on-line and open access publications. Even the older and old journals have adopted the net mode for paper submission, review, and editorial procedures before a hunt communication is revealed. Most journals currently have each a web and print version wherever in both are either freely out there or available below subscription. Presently things of journal publications have been in a very heap of criticism. This review tries to elaborate on this standing of journal publication, indexing, impact factor, authorship, and criteria for the assessment of educational Excellence.

Keywords: Journal publication, Indexing, Impact factor

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56 Indexing in research publications

Paper ID V6I3-1251 · Pages 227-229 · Psychology

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With the advancement in technology, researches no longer have to go in search or articles; they are just a click away. Technology has advanced; hence journal access has become much more comfortable in the present time. Indexing services have helped in these services. Indexing is an essential aspect of publication and reputation. Recent years studies have shown that many research scholars use academic Indexing in journals and many other Open access journals for their education. Indexing is essential as it measures the quality of a journal. Indexing measures the quality of a journal, and hence over the last few years, it is noted that this is the reason why scholars prefer to subscribe to online journals included in the leading list of indexing journals to publish their articles. This article is a review of various indexing services in research publications.

Keywords: Indexing, Agencies of indexing research journals, Open access journals publications, Review methods

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57 The idea of open banking and the ways it can empower banking: Theoretical perspectives

Paper ID V6I3-1273 · Pages 230-232 · Banking

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This article discussed the possible utility of open banking. Open banking is an innovative banking model that

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can change the way banks and financial institutions have worked. The focus of banking would not be restricted to brick and mortar way. Banking can be done anywhere; the focus would shift from banks' point of view to customers' point of view. Customers can use open banking for getting more pieces of information which can make their financial affairs, make better. Hence becoming a way of life and becoming part of the internet of things. This paper looks at how Open Banking would bring back the trust that customers have lost over the years in Banks. It also focuses on how open banking can bring value to customers and Banks.

Keywords: open banking banks open banking framework API financial institutions banking

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58 Research on variation of market values of residential properties in Erandwane and Prabhat Road in Pune city

Paper ID V6I3-1278 · Pages 233-238 · Valuation

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Pune formerly spelled Poona in 1857–1978, is the second-largest city in Maharashtra, after Mumbai. It is a ninth most populous city in the country with an estimated population of 3.13 million. Pune forms the urban core of the eponymous Pune Metropolitan Region (PMR). The Paper draws attention to the difference in rates between Prabhat Road Area and Erandwane area which is differentiated by mere Karve Road. The conclusions drawn within the report are limited to the area covered around Nal Stop. This study contains the sale transactions and lives and licenses agreement of residential properties from the period of the year 2012 to the end of the year 2018.

Keywords: Valuation, Prabhat road, Erandwane, Sale

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59 A study of indexing agencies – Indian and International perspectives

Paper ID V6I3-1280 · Pages 239-243 · Multidisciplinary

Bardot Savy, Research Scholar, CHRIST (Deemed to be University), Bangalore, Karnataka

This article is an attempt to bring forth some of the journal indexing agencies in India and abroad and discuss about their indexing parameters and the costing guidelines. It is suggested that the indexing agencies should strive to effectively bridge the digital research divide and to ensure that publishing in Open Access journals is accessible for authors in developing countries as well.

Keywords: Index, Indexing, Indexing agencies, Indexing parameters, Open and closed-access journals, Costing

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60 The communication technology using Internet of Things (IoT)

Paper ID V6I3-1282 · Pages 244-248 · Internet Of Things (iot)

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Communication technologies play a vital role in any wireless network. The networks comprise on energy constraint devices need low power communication technologies. web of Things (IoT) may be a new and progressing thought that gives property to the net via sensible sensing devices to realize identification and management in an exceedingly heterogeneous property surroundings. numerous communication technologies for Wireless Personal space Networks (WPAN) like IoT area unit on the market presenting many properties. IoT thought involves all heterogeneous objects around U.S.A. communication with one another regionally and via web globally. Such quite network poses many challenges and needs for selecting the most effective amongst the on the market communication technologies. This paper is meant to gift a vital study of IoT demand, problems Associate in Nursingd challenges and propose the most effective or appropriate amongst the on the market communication technologies and conjointly web of Things (IoT) plays the role of an expert's technical tool by empowering physical resources into sensible entities through existing network infrastructures. Its prime focus is to produce sensible and seamless services at the user finish with none interruption. The IoT paradigm is geared toward formulating a fancy data system with the mix of device knowledge acquisition, economical knowledge exchange through networking, machine learning, computing, big data, and clouds. Conversely, collection info Associate in Nursingd maintaining the confidentiality of an freelance entity, so running beside privacy and security provision in IoT is that the main regarding issue. Thus, new challenges of victimisation and advancing existing technologies, like new applications and victimisation policies, cloud computing, sensible conveyance system, protecting protocols, analytics tools for IoT-generated knowledge, communication protocols, etc., merit more investigation. This Special Issue reviews the most recent contributions of IoT application frameworks and also the advancement of their supporting technology. it's very imperative for tutorial and industrial stakeholders to propagate solutions that may leverage the opportunities and minimize the challenges in terms of victimisation this progressive technological development

Keywords: Communication Technologies, Wireless Sensor Network, IoT

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61 Indexing: A tool to promote Quality Research

Paper ID V6I3-1285 · Pages 249-251 · Education

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In today's scenario research work demands an environment where ideas can be exchanged, examined, and applied. It becomes very essential for researchers and lecturers to know that their research work is known by the community and also get recognition with the ones who they know or with whom they work with. A very important thumb rule for the accomplishment of research work is networking and showcasing oneself work to others to increase the stock of knowledge, to a larger audience, culture and society, and the use of this stock of knowledge which will further help to devise new applications for future researchers work. Thus it becomes very much prerogative for researchers and lecturers in choosing the right, authentic and reputable publications which in itself is a task. As Indexed journals are considered to be of higher quality than in comparison to any

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non-indexed journals for better visibility of the journal. The article also addresses a proper understanding about indexing and the major indexing agencies.

Keywords: Indexing, indexing agencies, citations, peer reviewing, promotion tool, quality indexing journal

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62 Smart mirror

Paper ID V6I3-1297 · Pages 252-254 · Information Technology

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This paper portrays the structure and improvement of a modern brilliant mirror that speaks to a subtle interface for the encompassing home condition. The mirror gives a characteristic method for the association through which the occupants can control the family unit savvy apparatuses and get to customized administrations. Accentuation is likewise given to guarantee comfort in getting to these administrations with a base measure of client intercession. For instance, face acknowledgment based verification is utilized to naturally distinguish the client confronting the mirror and give gadget based interface to get to information takes care of and different administrations. A help situated engineering has been embraced to create and convey the different administrations, where the mirror interface, the apparatuses, and the news and information channels all utilize Web administration correspondence components. The savvy reflect functionalities have been exhibited by building up an effectively extendable home robotization framework that encourages the combination of family unit apparatuses and different tweaked data administrations.

Keywords: Interface, Customized, Client, Administration,

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63 Internship finder application

Paper ID V6I3-1300 · Pages 255-260 · Software Engineering

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The current technological prowess allows for the creation of a plethora of products and services. The age of the

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internet has given the people ample opportunities that weren't present before. The typical student has to look for a number of sources to get a desired internship during the college days, the finding process is hectic and thus calls for serious assistance. This is where the need for an internship finder application arises. The following document will shed some light on the important aspects of having an internship finder application.

Keywords: Internship finder application, Python 3, Frontend, Backend, GUI, Data scrapping, Machine learning, Android (UI)

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64 Flexible pavement

Paper ID V6I3-1308 · Pages 261-264 · Civil Engineering

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Flexible pavement is a type of pavement in which transmission of load takes place through the grain to grain. In India flexible pavements are widely used. It can be constructed with low initial cost but the maintenance cost is quite high due to occurrence defects throughout its design life. It consists of four layers and the design code for the design of flexural pavement is done by IRC-37. The linear elastic theory is used for the analysis of flexible pavement because the loading time on the highways is very short and provides almost an elastic behavior.

Keywords: Subgrade, Optimum moisture content, Flexural strength, Filler, Maximum dry density

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65 Prediction on Covid-19 in India

Paper ID V6I3-1265 · Pages 265-269 · Software Engineering

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The paper talks about the modelling of new coronavirus spread based on Reproduction Rate, Total Number of Active Patients and Daily New Confirmed Patients. The model determines a rough estimate on the number of new cases based on the daily rate and previous week average of active patients. This prediction model is required in order to better prepare ourselves for medical-actions.

Keywords: COVID-19, Coronavirus India, Reproduction Rate, Daily New Confirmed Patients, Model

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66 Assessment of stress levels among teachers of learners with special needs in primary schools in Mbarara District, Uganda

Paper ID V6I3-1281 · Pages 270-274 · Educational Psychology

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Teachers of learners with special needs in primary schools are faced with different stress levels associated with special needs learners, for example, limited support, poor students' behavior, an unfriendly classroom environment, and poor professional competency. This paper explored the levels of stress among teachers handling learners with special needs in primary schools of Mbarara Municipality-Uganda. Census was used on the entire population of 53 teachers, purposive sampling was used to select schools handling learners with special needs. Data were collected using a cross-sectional survey design with quantitative and qualitative methods, a structured and open-ended questionnaire. The questionnaire composed of demographic section including a total number of years in teaching, positions held in school, highest academic qualification, and formal education undertaken for teaching special needs cases. Results show that majority of the respondents were males 27(50.9%), teachers who had an experience of teaching for ten years and above (56.6%), class teachers (52.8%), teachers with diplomas (54.7%), and teachers who had informal education on handling learners with special needs (56.6%). It was further discovered that teachers experienced high levels of stress due to limited support (M = 32.92, SD =9.52), and due to behavior of the students (M = 61.25, SD =15.92). The study recommends that teachers handling learners with special needs be supported by school administrators through refreshers courses to adequately handle learners in a friendly environment.

Keywords: Stress Levels, Teachers, Special needs

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67 Life cycle analysis and embodied energy: A review

Paper ID V6I3-1286 · Pages 275-282 · Civil Engineering

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Buildings consume a massive amount of energy during the life cycle stages of construction, use and demolition. Total life cycle energy use in building can be classified into two components: embodied and operational energy. Embodied energy is worn in the processes of building material production, on-site delivery, construction, maintenance, renovation and final demolition. Operational energy is used up in operating the buildings. Studies have discovered the growing consequence of embodied energy characteristic in buildings and have established its relationship to carbon emissions. Present understandings of embodied energy are quite indistinct and differ widely, databases of embodied energy agonize from the problems of variation and preeminence. This paper discusses the various types of embodied energy considered in the life cycle analysis of building and various methods along with there applications and limitations in the Calculation of Embodied energy.This Paper forms Part of a project that also studies the embodied energy calculation of a building throughout its life cycle.

Keywords: Embodied energy, Life cycle energy, Green Building Rating (GBR)

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68 Drone usage to combat COVID -19: an extensive survey of how drones are used to contain COVID -19 pandemic

Paper ID V6I3-1289 · Pages 283-289 · Mechatronics Engineering

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This paper evaluates the vital role of drones in the case of the current pandemic situation COVID – 19. The main objective of this paper is to assess how drones can play a crucial role at this time of crisis by containing the spread of the virus. Drones or unmanned vehicles have been in use for many purposes during natural calamities and disasters. These include earthquakes, flooding, Tsunami, etc. Here, in this paper, we emphasize how drones can be used to contain the current COVID -19 pandemic by spraying disinfectant on various surfaces. Since the coronavirus is a fast-spreading disease by means of person to person contact and surface contact, it has to be contained to a large extent to avoid further spreading of the virus. Drones play a crucial role in containing the surface spread of COVID – 19 by spraying disinfectants in hotspot areas such as malls, hospitals, high rise buildings, and other public places. Here, we have also discussed the importance of sanitization to stop the spread of the virus.

Keywords: COVID -19, Drone, Disinfectant, Natural calamities, Surface spread.

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69 Audio super resolution using Neural Networks

Paper ID V6I3-1299 · Pages 290-293 · Computer Science Engineering

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In this era of technological advancement, people tend to demand high-quality videos, audios, and images. So deep convolutional neural networks play an important role in learning low-resolution data and obtaining high-resolution data by performing interpolation method. This is similar to the image super-resolution. Here we introduce a signal processing technique to convert the low resolution into high-resolution data with the help of signal processing methods such as up-sampling and down-sampling using subpixel convolution through Bottleneck architecture. Our model tests the missing values within the low-resolution signals and forms high-resolution signals. This technique is applied to telephony, upscaling, text to speech conversion, and also for investigations in many departments. We test the effect of convolutions used in the signal processing and

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measures the compatibility and scalability for the generative model of audio.

Keywords: Deep convolutional neural networks, Interpolation method, Sub-pixel convolution, Bottleneck architecture.

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70 Towards many to many communications among blind, deaf and dumb users

Paper ID V6I3-1305 · Pages 294-296 · Information Science And Engineering

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Humans are social creatures. We learn by connecting with those and around us, through communication. While people with hearing or visual impairments alone can find a way to share their thoughts with others and understand them, deaf blind people face a much more difficult communication task. Thus project presents and implements the design, prototype and testing of a portable software and speaker device with a display for the communication between two people or also between visually impaired people

Keywords: gTTS, OCR(Optical Character Recognition), Pytesseract, pyttsx3, Googletrans, Contour Extraction, Thresholding, Background Elimination, Feature Extraction, LSTM.

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71 Implementation of modified blowfish algorithm

Paper ID V6I3-1284 · Pages 297-300 · Computer Science

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This project focuses on implementing a modified blowfish algorithm using a hardware description language such as VHDL. Encryption algorithm plays a major role in network application and data security systems. But securing data consumes a major amount of CPU time and battery power. We also focus on improvising the performance and security provided by the blowfish encryption algorithm. With the advancement in technology, DES is found to be no longer secure. As a drop-in replacement for DES, the blowfish encryption algorithm can be used. The original blowfish algorithm function has been modified using a modified S-box and adding Key Bits Shifting (KBS) to the Function Block.

Keywords: Blowfish algorithm, Encryption, Security, Key bits shifting (KBS)

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72 Handwritten digit classification using Convolutional Neural Networks

Paper ID V6I3-1301 · Pages 301-305 · Machine Learning

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This research study throws light on one of the most common use-cases of Handwritten Digit recognition which can be seen being implemented by using a particular Deep Learning technique for pattern recognition known as Convolutional Neural Networks which works similarly to the functionality of neurons in a human brain. We have trained and tested the MNIST dataset using this technique and implemented a classifier to predict the pattern of the digits.

Keywords: Handwritten digit classifier, MNIST, Deep learning, Convolutional neural networks, Machine learning, PyTorch, Neural networks

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73 Financial Inclusion in India – Need of the hour

Paper ID V6I3-1314 · Pages 306-308 · Management

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The article studies the existing systems of financial inclusion in India, the problem at hand and few qualitative ways those can be handled. The importance of Financial Inclusion in the current situation, when we are already riddled with a pandemic. It can improve the current economy in India while putting a liquidity back in the economy.

Keywords: Financial Inclusion, Current State of Financial Inclusion, COVID-19 impact on Financial Inclusion

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74 A machine learning approach for handwritten recognition

Paper ID V6I3-1320 · Pages 309-313 · Computer Science And Systems Engineering

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Handwritten recognition is the ability of the system to receive and interpret the input taken from various sources like paper documents, touch screen devices, photographs, etc. In this paper, we will be designing a handwritten recognition expert system using different classification algorithms to recognize the handwritten characters like Support Vector Machine(SVM), K-Nearest Neighbour(KNN), Random Forest Classifier and Neural Networks. This application is useful for recognizing all characters and digits given as in the input image. The main objective of the project is to increase the accuracy of the recognition characters through various algorithms and choose the best algorithm for recognizing characters or digits.

Keywords: Neural networks, Random forest classifier, Support vector machine (SVM), K-nearest neighbour (NN), Classification.

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75 Military base security system using Arduino

Paper ID V6I3-1315 · Pages 314-317 · Electronics Engineering

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The primary purpose of our assignment is to offer security to the armed force base. The point of convergence is about the PIR sensor, ultrasonic sensor, and unmanned wanderer. The PIR sensors which perceive the general movement of individuals in the unapproved region are set on the limit dividers of the base. After the recognizable proof of the human/object activity, the accompanying stage is to find the zone approached by the individual using the ULTRASONIC sensor-based radar system which will tell the point of separation of the individual's way to deal with the base and a short time later make a move over them by using the unmanned wanderer which will follow the individual and give a live criticism through a video and the wanderer will be furnished with a missile launcher to help safeguard the base in an extraordinary case.

Keywords: Military base security, PIR, Ultrasonic, Radar, Unmanned vehicle, IoT application.

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76 Promoting learning outcomes using digital literacy

Paper ID V6I3-1321 · Pages 318-323 · Computer Science

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The education system could not fulfill the student's future life and guarantee a job or work. Therefore, learning and teaching practices reexamine the learning outcomes quite recently. Outcome-Based Education is a transitional and transformational move, which motivates on student ability related to education what he or she can do with his or her learning experience. Outcome-Based Education restructures the teaching and learning practices from teacher-centric into learner-centric. Digital literacy nothing but online learning, e-learning, flipped learning causes active learning to encourage the students to achieve their learning outcome. The teachers have been required mandatory training to conquer digital literacy. This paper describes how digital literacy helps in achieving the learning outcomes.

Keywords: Digital Competence, Digital Literacy, Information Communication Technology (ICT), Open educational resources (OER)

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77 Analyzing the QoS metrics of Ad hoc on-demand distance vector protocol

Paper ID V6I3-1322 · Pages 324-326 · Computer Science And Engineering

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A mobile ad-hoc network(MANET) is a self-configuring infrastructure-less network in which all the nodes are connected using wireless medium without any base station. In brief, an ad-hoc network is a decentralized wireless network in which all the nodes participate in the routing process. In this project work, an attempt has been made to study Ad-hoc On-Demand Distance Vector (AODV), a reactive protocol using the OPNET simulator.

Keywords: OPNET, AODV, Mobile ad-hoc network (MANET), Routing protocols, End-to-end delay, Throughput.

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78 Green building; Preservation of Natural Environment

Paper ID V6I3-1323 · Pages 327-330 · Civil Engineering

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On Earth, Buildings or Infrastructure uses 40%-50% of its energy, whereas on other side green buildings or sustainable buildings uses a minimum amount of energy with the use of energy-efficient construction materials. Green building creates a positive impact on human health and also to the climate along with reducing negative impact. Green building established areas are much healthier than regular developed areas. These green buildings' characteristics are discussed in terms of their completeness and specificity and are compared to their guidance on building construction, design, and operation for good indoor air quality. Here, a case study of indoor air quality performance in a green building is presented. This study includes a description of the indoor air quality features of the building and the results of a short -term indoor air quality evaluation of the building involving ventilation and contaminant concentration measurements.

Keywords: Green building, Energy-efficient, Sustainable building, Air quality, Eco friendly, Contaminant

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79 Analyzing the QoS metrics of destination sequenced distance vector protocol

Paper ID V6I3-1327 · Pages 331-333 · Computer Science And Systems Engineering

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A mobile ad-hoc network (MANET) is a self-configuring infrastructure-less network of mobile devices connected by wireless. MANETs are restricted to a local area of wireless devices (such as a group of laptops/computers), so the determination of which nodes forward data is made dynamically on the basis of network connectivity and the routing algorithm in use. In this paper, an attempt has been made to study the Destination-Sequenced Distance-Vector routing protocol using the NS2 simulator.

Keywords: Sensor networks, DSDV, Mobile ad-hoc network(MANET), Network simulator, Routing protocols, End-to-end delay, Throughput

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80 Face recognition based attendance system

Paper ID V6I3-1334 · Pages 334-339 · Computer Engineering

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In modern times, Automatic Face recognition (AFR) technologies have seen dramatic improvements in performance over the last few years. There are two reasons for this trend; the first is for saving the time in the classroom and accuracy in attendance will be maintained, and the second is availability of advanced technology it is more useful for the future generation. In simple words, it was a computer implementation for recognizing automatically whether the student is present in the classroom or not with the help of still image or video frame. We proposed an automatic attendance management system. It was completely based on face recognition and the face detection. This both detection and recognition will automatically detect the students in the classroom and mark the attendance by recognizing the person. This research includes for Face Detection of Students and system is based on CNN algorithms.

Keywords: Face Recognition, Face Detection, CNN, AFR, Deep Learning

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81 Real-time tracking of water tanker using GPS, GSM, and Arduino

Paper ID V6I3-1337 · Pages 340-344 · Electronics Engineering

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Vehicle tracking system is a well-established technology in this era which is used by fleet system and owner of vehicle all over the world. It is a very safe and reliable technology. In this paper a real time tracking system is proposed. It is going to design a system which is used for tracking and positioning of any vehicle by using Global Positioning System (GPS) and Global System for Mobile Communication (GSM). The design is an embedded application, which will continuously monitor a moving vehicle and report the status of vehicle on demand. Tracking device used in real time vehicle location tracking is made up with Arduino Mega, SIM800A module and GPS module. For doing so the Arduino Mega is interfaced serially to a GSM module and GPS module. The GSM module is used to continuously send the position of the vehicle from remote place. The GPS module that uses satellite technology for its navigation system will continuously give data like longitude, latitude, time, direction of travel etc. Google map is used to view the position of vehicle on a digital mapping. This proposal has significant application for vehicle security, salesman tracking and private drivers.

Keywords: Vehicle Tracking, Water Level Indicator

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82 IoT based advance driverless seed sowing

Paper ID V6I3-1336 · Pages 345-347 · Electronic And Telecommunication Engineering

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Agriculture in India has a significant history. Today, India ranks second worldwide in far output. Still, agriculture is demographically the broadest economic sector and plays a significant role in the overall socio-economic fabric of India. In farming process, more labours are required to sow the seeds. The seed feed rate is more but the time required for the total operation is more and the total cost is increased due to labour. The conventional seed sowing machine is less efficient, time consuming. Today's era is marching towards the rapid growth of all sectors including the agricultural sector. To meet the future food demands, the farmers have to implement the new techniques which will not affect the soil texture but will increase the overall crop production. The main aim of our project is to sow the seeds automatically so that the time required will be reduced and efficiency will be increased. All the components will be manufactured and then assembled together. After making the assembly, the testing will be carried out and then the result & conclusion will be drawn.6

Keywords: Pic, Solar panel, Camera, IoT, Ultrasonic sensor, Sowing mechanism

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83 Use of Discrete Sumudu Transform in cryptography

Paper ID V6I3-1339 · Pages 348-350 · Mathematics

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Cryptography is a method of protecting information and communications through the use of codes so that only those for whom the information is intended can read and process it. Modern cryptography uses sophisticated mathematical equations (algorithms) and secret keys to encrypt and decrypt data. Today, cryptography is used to provide secrecy and integrity to our data, and both authentication and anonymity to our communications. In this paper we have to encrypt and decrypt secret data using discrete Sumudu transformation and congruence modulo operator relation.

Keywords: Engineering, Cryptography, Encryption, Decryption, Modern Sciences

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84 Detection of Diabetic Retinopathy

Paper ID V6I3-1343 · Pages 351-355 · Computer Science And Engineering

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Diabetic Retinopathy (DR) is an eye ailment that influences eighty to eighty-five percent of the patients having diabetes for more than ten years. The common process for analysis and detection of diabetic retinopathy is through retinal fundus images. The raw retinal fundus images are very hard to process by machine learning algorithms. The pre-processing of raw retinal fundus images is performed through the extraction of the green channel, image enhancement, and resizing techniques. These features are also extracted from pre-processed images for quantitative analysis. The experiments was performed using Kaggle Diabetic Retinopathy dataset, and the results were evaluated by considering the mean value and standard deviation for extracted features. The result yielded an exudate area as the best-ranked feature with a mean difference of 1029.7. The result attributed due to its complete absence in normal diabetic images and its simultaneous presence in the four classes of diabetic retinopathy images namely mild, normal, and severe and Proliferative.

Keywords: Diabetic retinopathy, Fundus image, Proliferative.

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85 Credit card fraud detection using random forest and isolation forest algorithms

Paper ID V6I3-1333 · Pages 356-359 · Computer Science And Engineering

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The project is mainly focussed on credit card fraud detection in the real world. The phenomenal growth in the number of credit card transactions has recently led to a considerable rise in fraudulent activities. The purpose is to obtain goods without paying or to obtain unauthorized funds from an account. 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 fraud. 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 outlaw actions. Online transaction fraud detection is the most challenging issue for banks and financial companies. So it is 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

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Factor algorithms using python and their detailed experimental results are proposed in this paper. After the analysis of the dataset we got the accuracy of 99% by random forest and 76% by Isolation Forest.

Keywords: Fraud detection, Random forest, Isolation forest, Credit card, Dataset

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86 Gall insects: Introduction and mechanism of Gall induction

Paper ID V6I3-1341 · Pages 360-365 · Agricultural Entomology

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The modification of plant structures through hypertrophy and/or hyperplasia leads to the development of galls that can be induced by various biotic agents such as viruses, bacteria, fungi, algae, nematodes, rotifers, copepods, and insects. Galls provide better utilization of underutilized niche, thus they have been reported to be helpful for insect survival and evolutionary processes. Around 13,000 species of gall-inducing insects are known worldwide, representing about 2% of the total number of insect species. These insect- gall inducers belong to different families of Hemiptera, Thysanoptera, Coleoptera, Hymenoptera, Diptera, and Lepidoptera. Even though, their wider distribution throughout the world, they have not yet explored fully. The plant defense – insect offense interaction in the gall- host interaction depends on various factors such as the production of effectors, the release of phytohormones, indirect and direct plant defense mechanisms that need to be studied for better understanding. There is a need to decipher the mechanism of gall induction to manage the insects economically.

Keywords: Hypertrophy, Hyperplasia, Gall-inducing insects, Plant defense, Phytohormones

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87 Application of savior to save from emergency situations

Paper ID V6I3-1360 · Pages 366-368 · Computer Science

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As we Indians always respect women and children from the past . Nowadays providing security to them is the most important thing. As we concentrated on this situation we hereby came up with the idea of reducing these activities. An application that we have developed helps to save from Emergency Situations. In an emergency situation user can able to register their complaint about help to rescue the team to rescue them from that situation. It helps the team to take necessary action depending upon the situation. By creating the necessary awareness we can create a good society for the future. This small step towards reducing activities can able to make the society free from illegal activities. The Application which we are coming up uses the location-based searching technique.

Keywords: Application, Emergency situation , Location based searching

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88 Crash analysis on a conventional type Chassis

Paper ID V6I3-1362 · Pages 369-375 · Mechanical Engineering

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The phenomenon of a vehicle crash is a nonlinear transient dynamics phenomenon. This report presents, crash analysis of a conventional type chassis structure design of 252kg was performed by using FEM. During a chassis crash lot of the members will have a plastic deformation and would absorb a lot of energy, thus crash test analysis plays an important role in testing the vehicle's safety. As the chassis is the Backbone of the Vehicle it should be able to withstand static and dynamic loads without many mechanical distortions. Crash analysis simulation used to determine better methods to design a chassis and also reduces the need for costly physical destructive testing programs. The Chassis has been designed in Solid works 2017 and the analysis has been done with the help of analysis software Ansys.

Keywords: Chassis crash, Simulation, Ansys

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89 Smart Headlight System

Paper ID V6I3-1349 · Pages 376-378 · Mechanical Engineering

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Artificial Intelligence has revolutionized the world making the lives of people simple and better than anytime before. Gadgets that we use in day-to-day life have become smart. One such field that has seen a tremendous change-over due to the introduction of artificial intelligence in the automotive field. Autonomous cars will form a major part of mobility in the future. The automotive headlights are a support system for the cameras mounted in the autonomous car, making the captured frames visually better so that the car can steer through properly. Though it is helpful for the autonomous steering system it has some demerits like glaring which is a major cause for accidents during night times. This journal will discuss a smart way of avoiding the glaring effect in the headlights making the roads safer.

Keywords: Smart headlights, Electrochromic glass, Anti-glare system, Lane detection

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90 Reproductive health among the Lodha Tribe in Mayurbhanj District, Odisha

Paper ID V6I3-1346 · Pages 379-383 · Social Anthropology

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Lodha is an important tribe of the Mayurbhanj district. Lodha tribes are dependent upon the forest for a living. Their livelihood and without any alternatives they took to criminal ways of life and were subsequently branded a criminal tribe. The aim to take this topic to contribute to the improvement of maternal and reproductive health by involving men in health care decisions. To strengthen the institutional and human resource capacities of key factors including local governments, health centers, communities, and men and women involved in reproductive health, focussed on improving reproductive and maternal health. To contribute to the improvement of access to quality maternal and reproductive health services in rural areas by involving men as the main advocates for reproductive health. They are not allowed to mingle with others during their periods. Their personal hygiene during the menstrual period is poor. They use cloth for protection during this period and do not have access to pad. Body washing during proper intervals or changing their dress are not seen among these women. The main reasons behind this are the lack of knowledge about the diseases that occur due to unsanitary conditions, lower socioeconomic status, and the inaccessibility to sanitary pads. This report examined women's health in Lodha and the factors that contribute to women's health and well-being.

Keywords: Tribal Health, The Lodha Reproductive Health, Well-Being and Health Policy

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91 MicroMiDi

Paper ID V6I3-1352 · Pages 384-387 · Computer Science Engineering

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Modern MIDI (Musical Instrument Digital Interface) controllers require significant physical space due to their preset button layout and space consuming setups. Despite their high price, modern MIDI controllers have only one setup. With one setup, music producers or artists have a hard time carrying their MIDI controllers around for concerts or other performances. The controller addresses the high cost that physical MIDI controllers currently hold on the market by allowing users to make/create their own specific MIDI control board using any combination of knobs, dials, buttons, and sliders. This customization of the controller allows the user to save space and money, while also accommodating for their style or a specific performance.

Keywords: Embedded Hardware, MIDI, Microcontroller, Arduino, music

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92 Scope of online classes

Paper ID V6I3-1354 · Pages 388-391 · Teacher

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This study is undertaken to evaluate the awareness & willingness of Indian Students on Scope of Online classes. It was conducted amongst 57 students studying in various schools belonging to the Bangalore & Hyderabad region. The results show us that the awareness is high & many students access their classes through Online. Most importantly a large majority of students expressed that it would be beneficial if the online mode of teaching is more Interactive based learning with teachers.

Keywords: Awareness, Willingness, Online Teaching, Online Learning, Traditional Way of teaching

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93 TPM as a Lean Technique to reduce lead time and breakdown hours in a Manufacturing Industry – A case study

Paper ID V6I3-1234 · Pages 392-399 · Mechanical Engineering

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In recent scenario, due to technological development and globalisation the manufacturing industries have become more competitive in nature which made all the manufacturers to improve their productivity to meet their customer demand. The manufacturers invest more on machines for high productivity but when these machines get repaired it leads to maximize the lead time and breakdown rate and hence the manufacturers had to meet a huge loss in their productivity. The aim of this study is to implement total productive maintenance lean technique to reduce the overall lead time and break down hours in a manufacturing industry with the objective of reducing thirty percentages of the breakdown hours in the foundry. The breakdown problem was identified in the industry and it shows that the major contributor to the breakdown hours is at the level of casting manufacturing in foundry. After proper analysis solution has been suggested for reducing the overall lead time and break down hours. From the results it was found that, about twenty percentages of reduction in the breakdown hours was achieved in the industry after implementation of lean tool.

Keywords: Total Productive Maintenance (TPM), Lean technique, Lead Time, Breakdown hours, Manufacturing industry

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94 Development of Smart Street using Internet of Things Technology

Paper ID V6I3-1180 · Pages 400-402 · Telecommunication Engineering

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In Bridge monitoring, the vital aspect is proper condition and state of it. This statement is planned and developed in an exceedingly fresh design for a giant extent bridge observation. A 3-level circulated assembly is assumed within the opinion structure, which has a fundamental server, intelligent achievement node, and a supervisor. The nodes are established transversely to the bridge construction. One native controller manages all the given nodes, each and every node has eight channels, which might provide movement, acceleration, and strain of the bridge. Compare to the normal technique, the projected design has 2 options. First, the achievement node could be a good device maintained by a prevailing DSP mainframe. Signals received from sensors are analyzed and are compressed within the provided node. This operation shall dismiss the load on the central server and diminish requests for communicating the information obtained from the sensors measure. The smart observation has been on into an outsized span for bridges. Consecutively the results display that the anticipated system is constant and efficient. Nowadays, food and water insufficiency occur because of the rise in inhabitants around the world. therefore, to evade this problem and weaknesses we have to market the farming segment. however, the wasting of water is an in this segment in the stylishness of water toil while watering the agronomic fields during irrigation. Henceforth an associate automatic plant irrigation system should be designed for the correct facility within the fields. This paper deals with associate programmed plant irrigation schemes that involuntarily intelligences the wet contents present in the soil and selects whether or not irrigation is essential or not and the way a lot of water is essential or mandatory for soil. this technique uses a microcontroller. it's programmed to sense the wet content if the soil over a period of time. Once the damp content is a reduced quantity than the limit that is provided, it'll begin activity the stated measure of water until it ranges the limit. therefore, once the dirt becomes dry, the drive can reflexively water the turfs and once the soil becomes damp and a little bit of wetness occurs the pump can mechanically turn out, thereby eliminate the requirement of the workforce and conserve the time. Automatic Street light-weight system could be an easy nevertheless powerful conception, that uses semiconductor as a shift. Through manipulation, this technique labor-intensive work is 100% detached. It mechanically switches the lights on once the daytime goes under the noticeable region of the eyes. This is frequently completed by a detector known as light Dependant electrical device, which intelligences the sunshine just like our eyes. It reflexively switches the lights off every time the sunshine arises, observable by people. Through manipulation, this technique does not allow energy consumption and it is reduced as to result of today the functioned by hand road illuminations aren't transitioned even when the daylight comes and also switched on earlier before sunset. during. This scheme evidently reveals the working of semiconductors in saturation and cut-off region.

Keywords: Microcontroller, Soil moisture sensor, LDR, Vibration sensor, Load sensor

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95 Effective online transaction and data security in online transaction

Paper ID V6I3-1350 · Pages 403-406 · Computer Science And Engineering

Nefisath Mishriya, Independent Author
Shaiju Joseph, Independent Author

In a cashless trend and busy schedule life most of us expect things to be done faster. We book and buy almost everything online. Includes shopping, booking tickets, appointment etc. So, we need to ensure user data such as personal contact number, account details credit/debit card number, pin number, password is highly

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securable. This research paper gives insights on online transaction precaution to be taken care while doing online transaction.

Keywords: Merchant, Electronic Fund Transfer (EFT), Two Factor Authentication (2FA), Net Banking, Credit Card, Debit Card, Unified Payment Interface(UPI), One-Time Password (OTP), Mobile Wallet

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96 Sensor aided pressure cooker whistle counter

Paper ID V6I3-1368 · Pages 407-410 · Mechanical Engineering

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Sensor aided pressure cooker whistle counter is a type of equipment wherein any user would be able to count the number of whistles coming out from a pressure cooker as a result of the release of pressure. It tracks the movement (lift to be specific) of the weight in the upward direction using a proximity sensor mounted close to the weight. The Arduino Uno is programmed in such a manner that for a lift of the weight, the counter increases its value by one. It is also programmed in a fashion that a buzzer alerts the user once the number of whistles exceeds the desired number set at the initial stage. The counter displays the required number of whistles and the present number which has gone by. The sensor probe is mounted atop the cooker lid using a thermocouple base for the prototype version. In actual practice, any material which could withstand high temperatures could be used. The circuit connections and other electronics are bolted to a common plywood base in order to avoid clumsiness. The main purpose of developing such a device is not to lose the tradition of cooking in a pressure cooker and rather causing ailments to human health by employing an electric rice cooker.

Keywords: Infrared, Arduino, Counter

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97 IoT enabled T-shirt for long-term monitoring of sleep-disordered breathing

Paper ID V6I3-1371 · Pages 411-415 · Electronics And Communication Engineering

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- Rest scattered breathing is an inexorably basic condition among everyone. Customary rest cluttered breathing conclusion relies upon in-lab polysomnography, while at-home rest test gadgets are turning into a progressively far-reaching. The two frameworks are bulky and regular information is gathered disconnected, normally constraining use to just a couple of evening recordings. We present the structure, usage, and primer outcomes from the novel "IOT prepared" rest test gadget named "VitalCore". The gadget uses electro resistive polymer sensors and accelerometer to gauge respiratory, cardiovascular, and actigraphy data. The gadget utilizes Bluetooth 5 to stream and move information and is able to do dependably getting great rest

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information. The gadget altogether improves the client experience by totally disguising the equipment into a shirt while giving five days of battery life, max throttle Bluetooth 5 live information spilling/downloading with nearby capacity prepared to do over a year worth of rest information.

Keywords: Home rest study, Electroresistive groups, Polysomnography, Rest cluttered relaxing

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98 Hopper mechanism for powder food packing industry

Paper ID V6I3-1385 · Pages 416-417 · Food Industry

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The hopper mechanism is completely mechanical, so the stability is very high compared to the electronics hopper. The hopper is a pyramids structure where a slot is provided in the bottom center, for the flow of the food powder. Beneath the hole in hopper a sliding plate is placed for opening and closing of the hole so whenever the sliding plate moves food power drops from the hole to the packet. After the weight reaches a particular level the plate closes automatically. This is done by a spring mechanism according to the stiffness of the spring. The spring is attached to a plate where the food powder falls in. When the weight of the food powder exceeds the stiffness of the spring then the plate connected with spring moves up. So the sliding plate covers the hole so that the flow of food powder has been stopped. Then the powder food product flows in a packing bag so that each packet can be sealed using a sealing machine.

Keywords: Hopper, Stiffness, Sliding plate

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99 An application of emergency assistance using GPS

Paper ID V6I3-1389 · Pages 418-420 · Computer Science

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This application emphasis on to find the location and giving the first aid info to the victim, during the time of the emergency case issues. This application deals with the present problems faced in the society by knowing the troubles of the people during the emergency of hospitalization. When a person met with the emergency of hospitalization, other users near to him can take the picture and can upload that to this application, as well as for a while he can find the prescription for that by choosing the options already present in the applications. The target of this application is to help the public who need to hospitalize during the emergency. So, it is a social application and also helps police station and ambulance to get the required information on a few clicks. The goal of this application is to find the people who are in trouble by sending their pictures to circulate the message to the police or hospital immediately during the emergency hospitalized cases.

Keywords: Biometric, GPS, First Aid, Hospital, Victim

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100 A survey on different Port Scanning methods and the tools that are used to perform them

Paper ID V6I3-1400 · Pages 421-426 · Network Security

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Port Scanning is a method which is used in the vulnerability Detection of a host Machine. Port scanning is a phase in footprinting and scanning; this comes in reconnaissance which is considered as the first stage of a computer attack. However there are different methods that can be used in different circumstances to perform a port scanning. But each method has its own cons and pros. This survey paper presents few such methods that was developed long ago but are in constant research and the tools that employ these methods. The paper presents different methods and compares them.

Keywords: TCP Scan, Inverse Mapping Scanning, Slow Scan, Half Open Scan, FIN Scan, Xmas Tree Scan, Null Scan, UDP Scan, Dumb Scanning, Fragmentation, FTP bounce Sharing, Connect Method(), SYN, ACK, RST, RFC 959.

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101 Plant disease detection using Machine Learning

Paper ID V6I3-1401 · Pages 427-429 · Computer Science And Engineering

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Agriculture is considered to be the backbone and major revenue producing of our country. Crops play an important role in our daily routine providing us with nourishments. Due to environmental conditions, crops are getting affected with many diseases. Farmers are not able to detect these diseases at an early stage. Thus, assessment of crop condition is vital. The growing technology plays a major role and techniques like Machine Learning, Deep Learning are used. Here in this project focuses on the assessment of the crop condition with the help of their leaves, Healthy as well as diseased leaves are capture using cameras from real-time environments, K-means clustering is used for segmentation. After segmentation undergo classification using Machine learning algorithms in which healthy and diseased leaves are detected.

Keywords: Support Vector Machine, Image Acquisition, Pre-Processng, Segmentation, Disease Detection

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102 Utilization of Reclaimed Asphalt Pavement in bituminous road

Paper ID V6I3-1404 · Pages 430-433 · Civil Engineering

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This paper aim to study various properties, parameter of RAP (Reclaimed Asphalt Pavement) and use it in construction of flexible pavement. RAP mainly constituted with scrap material received from flexible pavement due to increment of granular sub base and base course as per latest IRC code. In this the scrap material is recycled as RAP so the construction cost will considerably decrease. This RAP may be used as sub base course or base course with cold in place recycling method or reclaimed with additional binder or aggregates and use in base course as bituminous layer. This will also help to save valuable natural resource in huge quantity. This paper also contains a case study of RAP and analysis of direct saving of construction cost.

Keywords: Reclaimed Asphalt Pavement (RAP), Hot In Plant Recycling

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103 A study on procurement performance evaluation

Paper ID V6I3-1375 · Pages 434-438 · Operation Management

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The main objective of the study was to study procurement performance and its evaluation. Procurement processes are important functions within any enterprise. Procurement is the process of acquiring, buying goods or services or works from an external source, often via a tendering or bid process. The procurement process involves two categories i.e. direct procurement and indirect procurement. Direct Procurements affects the production process of manufacturing firms. It encompasses all items that are part of finished products, such as raw materials, components and parts. The indirect procurement activities deal with operating resources that a company purchases to enable its operations. The success of any organization is depends on supply chain and procurement, because of this it is very important to evaluate the performance of procurement. The financial performance is also indirectly linked with the procurement of material. For the efficient and effective working of any organization or company need to measure procurement performance. For this research purpose descriptive research design was used in executing the study. The targeted group of the study was staffs who deal with procurement. The questionnaire design according to objective and send to respective person and the analysis made on the response collected from them. The results describe using table, graphs, etc.

Keywords: Procurement, Efficiency and effectiveness, Procurement performance

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104 Computational structural analysis for Protein Glutathione

Paper ID V6I3-1379 · Pages 439-449 · Bio-informatics

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Glutathione is an anti-oxidant present in plants. It is used to treat lung diseases, including idiopathic pulmonary fibrosis, cystic fibrosis, and lung disease in people with HIV disease, cancer, skin pigmentation. Glutathione was also given as a shot (by injection into the muscle) for preventing poisonous side effects of cancer treatment (chemotherapy) and for treating the inability to father a child (male infertility). The Glutathione was given intravenously (by injection into the vein, by IV) for preventing “tired blood” (anemia) in kidney patients undergoing hemodialysis treatment, preventing kidney problems after heart bypass surgery, treating Parkinson’s disease, improving blood flow and decreasing clotting in individuals with “hardening of the arteries” (atherosclerosis), treating diabetes, and preventing toxic side effects of chemotherapy (cancer patient)In the following studies using bioinformatics software and tools the chemical structure of glutathione protein, drug indication, glutathione protein pathway, a gene present in the protein, binding and active site, binding interaction with other protein, domain region were predicted based on these studies it is concluded that the glutathione protein can be used to treat many human diseases.

Keywords: Glutathione, Free radical, Anti-oxidant, Binding site, Active site, Drug indication

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105 WebEnum

Paper ID V6I3-1377 · Pages 450-452 · Computer Science And Engineering

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When you want to compromise a system or infrastructure, the most critical phase you have to care about is information gathering. Then you enumerate the system using gathered information to get the exact version of protocols or software. Enumeration is one important phase where you extract the user information, network share, banner grabbing and retrieval of network protocol information. Enumeration is so important because one bad move could lure you to a rabbit hole which gives false information using that you can't compromise a system and you waste most of the time in it. So when you spend the most time in this enumeration phase you would get exact information about the system. It will save you some time and it will avoid getting you frustrated. When you are hacking a big network every information you should gather correctly. So some information will help you in further phases like privilege escalation or clearing tracks.

Keywords: Attack, Enumeration, Hacker, Web-Server

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106 Automated LPG cylinder consumption monitoring and safety system

Paper ID V6I3-1378 · Pages 453-456 · Electronics And Communication

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There is a quick improvement in innovation that affecting human life in a few viewpoints because of fast advancement in various fields however we despite everything need to receive that innovation with the end goal that we can make human life progressively simpler to live. At present we are having a framework Advance LPG cylinder booking through IVRS or online which is generally hard for the uneducated individuals to book the LPG cylinder ahead of time. Another Serious issue LPG cylinder clients confronting is "They don't know precisely the status of LPG gas fruition" makes considerably more postponement in booking the cylinder which is awkward the greater part of the occasions. This paper proposes a framework that will make the whole LPG cylinder booking strategy computerized without human intercession. This framework persistently quantifies the heaviness of the cylinder and once it arrives at least edge it will consequently send a message to the approved LPG Operator so they can convey the LPG cylinder in time. Alongside the Mechanized chamber booking, we additionally planned elements identified with the wellbeing of the client in which it persistently screens the spillage of LPG gas and alarms the client in regards to spillage to stay away from significant mishaps which costs human lives for the most part. Keywords: Arduino Uno, Temperature sensor, GSM Modem, Gas Sensor, Load Cell.

Keywords: Cylinder booking system, Automated LPG cylinder monitoring, Cylinder safety system, Cylinder booking device.

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107 Smart E-commerce hub for real estate web application

Paper ID V6I3-1407 · Pages 457-461 · Computer Science And Engineering

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Real estate is known as one of the most important sectors of the economy, hence Machine Learning Techniques outperforms a real estate professional when it comes to conducting demographic market research, environmental and financial analysis such as price predictions and loan approvals. The main objective of this paper is to find the best model to predict the prices and loan approvals and apply them to develop a smart E-Commerce application where users can search and inquire about a property, post their property Ads and can use the smart feature to predict the eligibility for their loan approvals using Machine Learning Model. The first thing that we have taken into account is the dataset of the apartment prices and different representative cases of loan applications. The dataset was pre-processed and tuned up for real analysis. Hence, our paper will also focus on data preprocessing of the raw dataset. Secondly after processing the data, we will review the use of Neural Network and Random Forest and the outcome that it generates. In addition, the proposed paper

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examines the use of the prediction system in real world settings applied into the smart real estate web application. The successful predictions made by the models will be a great asset for the real estate sectors and will provide real-life solutions to the problems that real estate investors face.

Keywords: Real Estate, Machine Learning, Smart Web Application, AJAX, Neural Network ,Random Forest, Dataset, Data Pre-processing

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108 Design and analysis of helical spring profiles in an electric vehicle suspension system using finite element method

Paper ID V6I3-1423 · Pages 462-467 · Mechanical Engineering

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Automobile suspension plays an important role in vehicle safety, passenger comfort and safety. During a mechanical deformation/vibration the suspension would absorb most of the energy (mechanical vibrations) and would ensure safety and comfort, most of the kinetic energy would be dissipated as Vertical motion in the vehicle. In this research paper a helical spring related to an electronic vehicle system with two different profiles under the effect of a uniform load have been studied. A model is created for an electric vehicle helical coil spring with modified profiles of the helical spring as circular and triangular fillet by using modelling software Solid works 2017. This research paper deals with the detailed analysis of the suspension system by using ANSYS workbench 18.1 simulation software. Using the Finite element approach, results are compared on the basis of Static Structure analysis. In addition, the results for the various spring profiles are compared.

Keywords: FEA, Solid Works, Shock Absorber, ANSYS, Static Structure Analysis

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109 Flexible pavements deterioration and solutions

Paper ID V6I3-1357 · Pages 468-470 · Civil Engineering

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Pavement scepticism is characterized as regards retreating serviceability bring with reference to by the development of breaks and grooves. Prior to going into the maintenance methodologies, one should consider the reasons for disenchantment of bituminous asphalts. Disenchantment of bituminous asphalts is brought on for the reason that of many reasons including mix of reasons. Use of moderation in progress surface will improve the life of maintain acts and in adding that of refreshing layer. The papers present an image of instruction learnt from asphalt disillusionment and issues practiced among recent couple of years on different tasks in Nation of India. Taking into consideration the report the past encounters unusual asphalt fortification methods and procedures are equally converse about which will be productive in expanding the practical subsistence of asphalt. This accountability and responsibility manages the asphalt decay and its causes.

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Keywords: Corrosion, Pavement, Rigid pavement, Layer, Bituminous.

Keywords: Corrosion, Pavement, Rigid pavement, Layer, Bituminous

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110 Chatbot enabled college management system

Paper ID V6I3-1399 · Pages 471-473 · Computer Science And Engineering

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In a world of growing technology,to know more details about the college,either visiting the campus or checking out the college websites that provide information about the college seems to be time consuming and boring.This traditional way can be eradicated by introducing a college chat bot for efficiently answering any queries of the user.It also provides a more comfortable interface as though the user is talking to a real human.In this paper we have come up with an idea to build a chat bot using Google Dialogflow to answer any queries related to college.

Keywords: Chatbot, Dialogflow, Firebase, Web app, repl.it

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111 Accident alert system using IoT

Paper ID V6I3-1406 · Pages 474-477 · Embedded System

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In order to identify vehicle accidents and send the accident location information to the vehicle owner, the nearest hospital and a police station through a web service, an IoT-based accident and rescue information system has been developed. The contact between the Web server and the hardware system is made via GSM / GPRS, with a GPS shield. Vibration sensors, keypad and buzzer are used to identify the incident. The project is built to collect data in real time using a web application, Android mobile app or SMS for the hardware computer. This project ensures the correct identification of the accident site in the nearest police station and hospitals and sends a notice.

Keywords: IoT, Pressure Sensors, Node MCU, GPS Module, L293d Motor Driver, Blynk App

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112 Applications of Operations Research in theme parks

Paper ID V6I3-1394 · Pages 478-483 · Operation Research

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The growth of Theme Parks and their impact on the Indian Economy have attracted considerable attention in recent years. Theme parks represent major development in contemporary leisure and recreation. In this research paper, a review of the application of operations research methods in the theme park industry is provided. The operation efficiency of theme park attractions using the data envelopment analysis, The installation area, installation cost, and annual repair cost are set as input factors and the number of annual users and customer satisfaction as output factors. The results show that the roller coaster-type attractions were less efficient than other types of attractions while rotating-type attractions were relatively more efficient. However, an importance performance analysis on individual attraction’s efficiency and satisfaction showed that operational efficiency should not be the sole consideration in attraction installation. In addition, the projection points for input factors for efficient use of attractions and the appropriate reference set for benchmarking are provided as guideline for attraction efficiency management.

Keywords: Theme park, Operation research, Product, Ride fare, Staffing

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113 Comparative analysis on vehicle insurances fraud detection using machine learning

Paper ID V6I3-1419 · Pages 484-488 · Computer Science Engineering

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Now-a-days frauds have become a serious threat to the society. Fraud is an illegal way of gaining more money. Frauds are posing problems to so many people. So, fraud detection becomes very important in this current world. Fraud detection can be implemented in various fields like banking, insurance, financial sectors and information security systems. And in the field of insurance, we have different types of insurances- health, vehicle and even life insurances. Frauds occur in each of these types of insurances. There are manyapproaches using which fraud can be detected. Machine learning, artificial intelligence, data mining and othermethods are used to detect frauds. The well-known methods used in machine learning to detect frauds areBayesian Network, Decision trees and back propagation techniques. Many algorithms are also used to detectfrauds like Naïve Bayes, KNN, Random forest. In this paper, the different techniques used for vehicle insurancefraud detection are presented along with comparative analysis.

Keywords: Fraud, Fraud detection, Machine Learning, Insurance, Naive Bayes, KNN, Random Forest, Neural Network

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114 An alert to focus on self development for post COVID world

Paper ID V6I3-1421 · Pages 489-498 · Self Development

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The work world is profoundly affected by the global pandemic COVID-19.It is impacting not only the health of millions, but also their livelihood and well-being are in stake. It has presented unique challenges for all forms of learning’s to skill development processes. It has stimulated the need to accelerate all form of online learning and skilling. In this context to the need to explore innovative, upgrading methodologies and skills in workplace

Keywords: COVID-19, Skilling, Digital, Upgrade skill, Learning, Sustainability, Exploser

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115 Drowsiness detection using feature extraction

Paper ID V6I3-1424 · Pages 499-500 · Computer Vision

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Drowsiness detection system is a visual based system which will detect the eyes of the driver and classify it as awake or asleep in real time. The targeted customers predominately consist of commercial land transport companies, and is also available to general public. Since long distance transportations exhausts a lot of drivers which can lead to driver unexpectedly falling asleep can cause fatal accidents. In order to prevent this the Drowsiness detection system will immediately detect the state of the driver, if the driver falls asleep the system will immediately raise an alarm to alert the driver. The system’s interface will be through a web app which will display the camera feed and the status of the driver in real time. The system uses HOG [Histogram Oriented Gradient] for feature extraction of facial points recognition. Though there will some delay between the real time

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feed and the processed feed Our project aims in making it as fast as possible with minimum compute resources. This project is done using openCV, python, Dlib, boot.python.

Keywords: Drowsiness Detection, Feature Extraction, Histogram Oriented Gradient, Dlib

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116 Duration of an actor in a video using Keras

Paper ID V6I3-1425 · Pages 501-504 · Information Science

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This research is mainly based on automating the process of calculating the time taken for any actor to appear on the screen. It is one of the main factors for determining the remuneration to be given to actors for appearing on the screen for a particular time period. By automating this process, we can accurately determine the screen time of an actor with minimum error. This proposed idea can be implemented using the knowledge related to image processing with the help of CNN architecture. The major part of the research lies in determining the hyperparameters and the right model that fits the given video appropriately and gives the best results for the model evaluation. The major findings of this paper lie on analyzing the right activation function, the number of layers for the neural network, finding the drop-out rate for the trained neural network, deciding upon the weight sharing of the input attributes, and of the hidden layers. The final outcome of this performed experiment is a neural network that can be used for deciding the duration of an actor on the screen.

Keywords: CNN, Drop-Out Rate, Keras, Activation Function, Overfitting, Cross-Validation

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117 Surgical site infections in a tertiary care center in Rajasthan

Paper ID V6I3-1435 · Pages 505-510 · General Surgery

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Surgical site infections are the 3rd most common nosocomial infections in a hospital setting. It is a menace to both patients and surgeons, as it accounts for 1-3% of all surgical procedures, decreasing the success rate of surgeries. The study was conducted on 90 consecutive patients of Surgical site infection occurring after various surgical procedures within the same surgical team in the National Institute of Medical Sciences and Research, Jaipur, from 1st January 2018 till 30th June 2019. The objectives of this study were to assess the etiological factors of surgical site infection, the relationship of these factors with the type of surgical site infection, and to isolate the bacteria and the choice of antibiotic therapy suited for such patients. The rate of surgical site infections in our study was 6.99%. This value is relatively low when considering that the majority of the patients that were taken for surgery were in an emergency condition. A relationship was seen between co-morbidities in the form of diabetes mellitus, immunosuppressed patients, and patients who smoke, as all of them made up

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the majority of the patients who developed surgical site infection. As per treatment modalities, patients who had drains placed intra-operatively made up a larger majority of the total patients who had developed surgical site infections compared to those patients who did not have a drain placed. The most common bacteria isolated was Staphylococcus aureus which showed high sensitivity to piperacillin, vancomycin, linezolid, and amikacin.

Keywords: Surgical Site Infection, Etiology, Antibiotic Sensitivity, Aerobic Bacteria, Infections

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118 Management and utilization of Keratin Waste– A review

Paper ID V6I3-1446 · Pages 511-515 · Environmental Biotechnology

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Keratin is a major complex structural protein present in hair, wool, home, hoops, feathers and nails of animals. It is considered as an environmental pollutant because of its slow degradation and produced mostly at both domestic and industrial levels. So beneficial utilisation and management go these keratin based waste has a significant importance. Out of many traditional and new approaches to breakdown keratin, the use of natural soil keratinophilic microbes is widely studied because of nontoxic and useful byproducts produced. These keratin based products have a widespread application in medical, animal feed, fertiliser, biomedical uses and many other type of industries. In the present review various strategies for hydrolysis of keratin from the organic waste have been described and use of natural keratin in different industries have also been explored.

Keywords: Keratin, environmental pollutant, keratinophilic microbes, industrial application

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119 Basic design parameters for an intersection and design criteria for the unsignalised intersection at IET Crossing, Lucknow

Paper ID V6I3-1454 · Pages 516-518 · Civil Engineering

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Safety on road is nowadays one of the most important issues. As compared to other locations on the roads the higher traffic crashes are observed on the intersections. Keeping in mind the traffic situation in cities, the types of intersections and type of traffic, this design considers various basic design parameters,conflicts point,

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intersection design and safety are chosen. The site for design of intersection on National Highway near IET, Lucknow at crossing of NH28 Ayodhya Road to NH24 Sitapur Road and Jankipuram to Aliganj Road. The basis for design is manual counting of traffic volume at the site for peak hours of seven days On each road and the maximum value among these is used for designing the intersection. By using the data and IRC guidelines the type of intersection and other parameters are calculated.

Keywords: Intersection Design on Highway, Design parameters, Improvement in safety

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120 Design and analysis of single wheel hover-board

Paper ID V6I3-1463 · Pages 519-524 · Mechanical Engineering

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The ‘Single Wheel Hover-board’ is a personal electric vehicle running on a single wheel. The vehicle is powered by a battery source. The motor (DC 24V, 250W, High Torque) is in skew with the shaft of the wheel with the help of a chain drive, whose speed will be controlled by a custom-designed ‘Speed control’ circuit, capable for currents about 50A. The control of the motor direction is the posture of the persons driving it. Intelligent sensors like IMU, which houses accelerometer and gyroscope is used to monitor the posture of the person, and accordingly the processor signals the speed controller circuit. Additional features for the Hover-board includes the regenerative braking, inbuilt battery charging capability, battery level indicator.

Keywords: Hover-Board, Chopper Drive, Electric Vehicle, PID Controller

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121 Self power generating electric bike

Paper ID V6I3-1356 · Pages 525-530 · Mechanical And Electrical Engineering

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Now day’s bike or vehicle is very important our fast life for travelling and this is also play very important role in growth of economy but main drawback of this bike and vehicle is produce pollution in environment because of burning fuel. For this reason increases global warming and also storage of fuel is limited. Due to that now day’s need of eco-friendly technology for travelling .e-bike (electrical bicycle) this is nothing but one example of eco-friendly technology but this technology having some drawback to overcome the drawback of e-bike we have been design self-power generating electrical bike. This design overcomes all the drawback of e bike. Self-power generating electrical bike is nothing but e-bike that generate its own power supply by using some arrangement.

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Keywords: Alternator, Battery, Motor, DC Booster

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122 Self healing of concrete using bacteria

Paper ID V6I3-1455 · Pages 531-532 · Structural Engineering

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The present investigation is to obtain performance of concrete by the microbiologically induced special growth. Researchers with different bacteria proposed different concrete. Here an attempt was made by using the bacteria bacillus subtilis. This study showed a significant increase in the compressive strength due to the addition of bacteria. In self healing property is sucessfully achieved due to addition of bacteria.

Keywords: Bacteria, Self Healing, Compressive Strength

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123 BIM-understanding, its drivers and challenges in the Indian Construction Industry

Paper ID V6I3-1414 · Pages 533-538 · Building Engineering And Management

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With the rapid rise in AECO (Architecture, Engineering, Construction, Operation & Maintenance) industry, there was a need to reinvent the conventional construction practice and project delivery system. The digitization of data resulted in the formation of Building Information and Modelling (BIM) which revolutionized the AEC industry. BIM offers the integrated ability of properties, materials, life-cycle and other data with added facilities of interoperability, facility management, construction management, risk management and leadership in energy and environmental design. Since 2000 BIM is considered to be a major breakthrough in the construction industries which not only delivers the projects but also tackles the operation and maintenance of the delivered project. BIM provides the 7D environment i.e. (x.y, z) axis, time, cost, sustainability and facility management, further research is being going on to achieve nD environment.This research aims at the growth drivers and the challenges faced for adoption of BIM in Indian construction projects through questionnaire survey for different user and discuss the risk, challenges,reason and interest in adoption of BIM for Indian Construction Industry.The discoveries and proposals of this research could be utilized by organizations to help survey their current BIM appropriation and distinguish if and how BIM ought to be embraced.

Keywords: BIM, Conventional-Construction, Interoperability, nD

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124 Smart waste management using IoT

Paper ID V6I3-1393 · Pages 539-541 · Computer Science Engineering - Iot

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Many times in the current situation we see that the trash cans or Dustbins are put in the public squares of the city that are overflowing every day due to a rise in the waste. It produces unhygienic conditions for people and produces an unpleasant smell in the local environment, which leads to the spread of certain deadly diseases and human disease. With a rapid growth in population, sanitation problems with regard to waste management are tremendously deteriorating. With rapid population growth, sanitation-related problems with regard to garbage management are extremely degrading. “Smart Waste Management using IoT" is the latest, evolving solution to avoid this problem. Public dustbins will be supported in the proposed system with embedded devices that helps to track the amount of garbage in the garbage bins in real time. Analysing the constant data collected would help municipal and government authorities develop smart waste management strategies with the help of reports produced by various systems.

Keywords: Internet of Things (IoT), Sensors, Smart Bin, Solar Panel

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125 Design and implementation of floating point processor

Paper ID V6I3-1456 · Pages 542-546 · Electronics And Communication Engineering

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The floating point processor is the backbone of digital signal processing units. In real time applications it is necessary to have a powerful processor which has a very high level of precision. This can only be achieved using a floating point unit.We are going to incorporate various instructions which will be serving for a dynamic range of applications. The floating point unit needs to be fast enough to process real time signals. An efficient design of the floating point processor can help in reducing the area and increasing the speed.

Keywords: Floating point, FPGA, Xilinx

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126 Framework for classification of music based on tempo using Naïve Bayes and cloud storage

Paper ID V6I3-1472 · Pages 547-549 · Machine Learning

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Music is considered as one the best form of expression of emotions. The music that people hear is governed by what mood they are in. The characteristics of music such as rhythm, melody, harmony, pitch, and timbre play a major role in human physiology and psychological functions, thus altering their mood. The Naive Bayes classifier is considered a popular classification technique in machine learning. It's been shown to be very effective on a range of test data sets. However, the strong assumption that each attribute is independent of each other is often violated in real-world problems. In this paper, we have applied locally weighted Naïve Bayes to data stored within cloud to automate the process of classification of music.

Keywords: Music Emotion, Music Information Retrieval, Music Mood, Attribute Weighting, Class, Local Optimization Naive Bayes, Cloud Storage

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127 Enrichment of black cotton soil using demolished crushed concrete from Maradu

Paper ID V6I3-1474 · Pages 550-552 · Geotechnology

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Some natural resources such as gravel are not renewable, therefore, it is necessary to reduce the use of such resources and replace them with other recycled, economic, and environmentally friendly materials. Recycled crushed concrete aggregates demolished from old buildings and blocks of waste concrete can be used to replace the natural aggregates. The present study focused on using recycled crushed concrete in improving the geotechnical properties of soft soil having undrained shear strength of 4.15 K Pa. The soft soil samples were mixed with 5, 10, and 15% of crushed concrete. The blocks of waste concrete are grinded by mills to get crushed concrete which passing sieve no. 4.75. Such aggregates are lighter than natural aggregates and provide a good deformation modulus when mixed with soil.

Keywords: Improvement, Crushed Concrete, Soft Soil, Mixing, Geotechnical Properties

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128 HelpApp – A WiFi direct based disaster management application

Paper ID V6I3-1476 · Pages 553-556 · Computer Science

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Communication during a disaster is very crucial and a very challenging domain due to the fact that the traditional communication infrastructure are very prone to go offline which prevents the people stuck in the disaster to communicate with each other and report their status to the rescue authorities which in turn causes delays to rescue operations. To enable communication between devices during a disaster and for effective and productive rescue operations, we propose an Android Application (named HelpApp) to overcome the inoperative traditional communication network where we use WiFi Direct. Android OS is used because it has 70% of the total smartphone users in the world 95.2% of the market share in India. While the primary connection is WiFi Direct, we make use of WiFi Legacy to give it adhoc-like behaviour where the network can be largely scaled up. A prototype of this application has been successfully built and tested in a controlled environment to show the capabilities. This application is published under a FOSS license and source code is available on GitHub.

Keywords: Communication, Disaster, Android, WiFi Direct, WiFi Legacy

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129 A comparative study on usage of Python and C/C++ for firmware development

Paper ID V6I3-1484 · Pages 557-559 · Embedded System

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The C/C++ programming languages dominate embedded systems programming,though they have a number of disadvantages. Python on the other hand has many strengths that make it a great language for embedded systems. This paper presents a comparative analysis of Python and C Programming languages in the context of firmware development.

Keywords: C, Python, RTOS, IOS, GUI, MicroPython, Cython, Garbage Collection, Theano, JIT, Unix, Macintosh

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130 Eco-sanitation as a means to treat wastewater from underground metro rail stations

Paper ID V6I3-1485 · Pages 560-564 · Civil Engineering

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Sanitation trouble exists for people throughout the globe: simple human waste collection and remedy is inaccessible to a whole lot of the world’s populace; and the reputation-quo gray infrastructure system of sanitation is unsustainable and fallacious for extensive software. Ecological sanitation, or ecosan, refers to a range of sanitation technologies in which human excreta is recovered and retained on-web page, and in the end reused. The underlying aim is to shut (nearby) nutrient and water cycles with as little expenditure on fabric and strength as viable to contribute to sustainable development. Human excreta are treated as a resource and are typically processed on-website online and then treated off-site. The nutrients contained in excreta are then recycled via the use of them, e.G., in agriculture. EcoSan is a systemic approach and a mindset; unmarried technology is the most effective method to an end and may vary from near-herbal wastewater treatment techniques to compost toilets, easy family installations to complicated, specifically decentralized structures. These techniques aren't ecological consistent with se however best on the subject of the found surroundings. They are picked from the complete range of available conventional, present-day and conventional technical options, combining them to EcoSan structures. The paper affords an advent to EcoSan standards and Zero waste toilet devices as a way to make certain powerful eco-sanitation.

Keywords: Eco-Sanitation, Zero-Waste Toilet System, Ecologically Viable, Waste Water Treatment

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131 Intelligent surface heating using LSTM networks

Paper ID V6I3-1410 · Pages 565-567 · Artificial Intelligence

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Electrically heated blankets have been around the market for a long time. They are extremely handy during winters, as they can be used to warm beds. There have been many advances in the control systems to ensure that the desired temperature of the blanket is maintained. The drawback of such systems is its power consumption. Commercially available heating blankets use about 200 watts of power. On average, an adult's body occupies only about 60 to 70 percent of the total sleeping area of a bed. Existing technologies heat thefull blanket irrespective of the users sleeping position and orientation. This results in wastage of power due to inefficient heating of the blanket. In this paper, we present an intelligent heating system that uses Long Short Term Memory (LSTM) to learn the sleeping patterns of the user to predict the future position and orientation of the user to maximize its overall efficiency.

Keywords: Long Short Term Memory (LSTM), Intelligent Devices, Machine Learning, Automatic heat regulation, Fuzzy PD control

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132 Research paper on physical activity and fitness patterns among university students in Mumbai

Paper ID V6I3-1465 · Pages 568-575 · Physical Activity And Fitness Patterns

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Due to the increase in the workload and the observable increase in the competition amongst the youth, the health and fitness of oneself are put as a secondary priority amongst them. This research was conducted to test this very reason and to check its validity. As not many studies are carried out on targeting this specific set of the population on this subject, this research was carried out to understand the physical activity patterns among university students and their perception towards the same. Descriptive research was carried out where a cross-sectional data on physical activity levels were collected (Self-reported data). The attitudes, motivations, demotivation, food consumption patterns, and the perception of them regarding their health and fitness were collected from the respondents. A sample of 122 was used where there were 63 women and 59 men. This study gathered quantitative data through structured questionnaires to understand each of the objectives. Descriptive statistics were used to analyze data where the mean, median, mode, and standard deviation was calculated and a number of correlations were made using the same. It was found that respondents aging from 15-26 have low levels of physical activity. Moreover, when a comparison was made between males and females on their levels of physical activity, women were found to do easier levels of physical activity. The BMI was likewise determined, so as to discover the class of weights that individual's fall into. While the vast majority expressed that practicing was imperative to them, they, despite everything neglected to work out for adequate hours per week. While individuals know and have the correct disposition towards working out, they have recently been unsuccessful when it came to really work out. At the point when it went to the reasons why individuals work out, the most well-known ones were to get fitter or more grounded or accomplish a positive inclination. Be that as it may, when it went to the demotivation of working out the most widely recognized reasons were the lack of time, energy, and inspiration to work out. Some different elements that were a consequence of individuals

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being overweight were their temptations/cravings to eat fast food. A greater part of the respondents said that they expended cheap food in any event 2-3 times per day. 15-26 years old have busy lifestyles and hence are much harder to reach. A targeted intervention could be carried out in order to educate people about the importance of the physical activity.

Keywords: Physical Activity, Fitness, University Students, Food Consumption

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133 Real-time facial expression recognition using CNN

Paper ID V6I3-1492 · Pages 576-580 · Machine Learning

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Enhancing modern day machines or computers to recognize various facial expressions and to understand human emotions from them in real time is an exigent research subject. Through this paper, I put forward a solution to recognize emotions by understanding different facial expressions by collecting live video through a Flask App created. I deploy a Flask App to video stream live feed captured through the local camera attached to the machine or computer system. The video captured is fed to various image extraction techniques. The facial features are identified by different operations provided by OpenCV and the region consisting of parts of the face are made to surround or enclose by a contour. This region, enclosed by the contour is used as an input to Convolutional Neural Network (CNN). The CNN model created consists of six activation layers, of which four are convolution layers and two are fully controlled layers. Each layer is designed to undergo several training techniques. The main objective of this project is to demonstrate the accuracy of Convolutional Neural Network model designed. The paper is concluded by discussing the outcomes of our project and the ways to improve the efficiency of the model. The scope of this project is also analyzed to enhance technologies developed in the near future.

Keywords: Flask App, Convolutional Neural Network (CNN), Image extraction techniques, Training methods

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134 Neural Networks based image classification for animal Intrusion Detection System

Paper ID V6I3-1486 · Pages 581-583 · Electronics And Communication Engineering

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Agriculture plays a major role in the development of a country. Issues concerning agribusiness have been continually thwarting the advancement of the nation. Farmers face a huge number of issues, for example, the insufficiency of water for irrigation, harm to crops because of pests and wildlife. In any case, productivity is decreased by the wild creatures trampling over harvests and eating them. This project provides a solution for these problems without hurting creatures or setting human life at stake. In this project, we use Raspberry pi to

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protect the farmland from animals. Classification of the intruded animals is done using the photos taken utilizing the Convolutional Neural Network. This way it is easy to arrive at useful information regarding the intrusions and take measures against it.

Keywords: Agriculture, Intrusion, Camera, Raspberry Pi

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135 Non-invasive optical intravenous monitoring system

Paper ID V6I3-1411 · Pages 584-586 · Biomedical Engineering

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This paper emphasizes Intravenous Fluid Bottle monitoring in hospitals using an innovative non-invasive optical approach. For good patient care in hospitals, the management of fluid and electrolyte bottles is the most fundamental thing required. In all hospitals, an assistant/nurse is responsible for monitoring the bottle's electrolyte level. But unfortunately, most of the time the observer may forget to change the bottle at the correct time due to a busy schedule which can lead to fatal conditions like air embolism due to air bubbles in IV pipe when the bottle gets empty. To overcome this critical situation, an intravenous optical sensor system is proposed to measure the liquid level from outside the bottle. The device is designed such that it can be easily replaced from one bottle to another. This device can avoid any fatal condition and ease the workload of nurses.

Keywords: Intravenous, IV Bottle, Drip, Non-invasive, Optical

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136 Advancement of traditional smoke detectors to smart: A survey

Paper ID V6I3-1464 · Pages 587-589 · Electronics And Communication Engineering

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This paper focuses primarily on the importance of smoke detectors that can be utilized in house, office, and shop, security gas station to detect smoke and fire. Safety becomes an important issue when fire detection is present in the home so that children and the elderly who are unable to fight fire smoke can use it. Prior research shows that are many deaths have occurred due to suffocation caused by causalities like sudden fire, circuit failure, unwanted fire hazards. A survey of various existing techniques of smoke detectors and how the techniques grew from traditional to smart, is given in this paper.

Keywords: Fire Detectors, SMS Alarm, Safety, Fire Smoke Detectors

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137 SAFE: Simplified Agro-Farmic Enumerate

Paper ID V6I3-1478 · Pages 590-593 · Agriculture And Data Analysis

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The agriculture sector of India employees a major population of Indians. But still, due to emerging constructional projects, the agricultural lands are decreasing. And the number of people to feed is increasing day by day. Also, the profit earned by the farmers for their crops is not satisfactory. So, the solution to all these problems could be a proper crop selection. In India, the crop selection is still done using traditional methods. Some still select the crop on the basis of soil type, but it is not sufficient in today's time. Crop selection can be done more accurately with the help of other factors including soil type, climate, water level, season, etc. Crop selection can be done with the help of Data Science. Data Science is a technology that has the potential to transform every industry on this earth, agriculture is among them.

Keywords: Crop Selection, Data Science, Technology and Agriculture Crop prediction,Data Analysis

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138 Location based alarm on Android

Paper ID V6I3-1493 · Pages 594-596 · Information Technology

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Location based reminder are essential component of many location based application. It basically remind user when to do something. The main purpose of location based services is to provide services to customers based on their knowledge of location. All the user need’s to have is the mobile phone with Android operating system and user can select any destination on Google map’s. In this paper we proposed an architecture of location based services which use GPS.

Keywords: Alarm, GPS, Android, Google Map

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139 Dissemination of digital question paper using biometric

Paper ID V6I3-1498 · Pages 597-599 · Computer Science

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In the present instruction framework, a few colleges send the question papers physically to the colleges, the security of queper (Question Paper), and sending queper to the universities is an extremely long and hazardous process. Our application Dissemination of digital question paper using biometric, circulating the specific subjects question paper upon the arrival of the beginning of the exam without allowing to complete any acts of

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neglect. In our application, the administrator makes sections of different universities and spectators inside application, enrollment process for college, and observer is done commonly utilizing the site by entering their subtle elements. Here question papers are put away into the database in the encryption method. Afterward, login by college and observer, both need to login to the application at once with their username and secret word alongside biometric to download the particular quepers on that day of initiation of the exam, quepers are accessible in the application as in decrypted form. The examination will depict our experience and future work particularly helped for the college and understudies.

Keywords: University, Question Paper Circulation, Digital Question Paper, Biometric, Dissemination of Digital Question Paper

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140 Integral security option towards unpredictable patterns

Paper ID V6I3-1501 · Pages 600-604 · Electronics And Communication Engineering

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The most predominant computer authentication method is to use alphanumerical usernames and passwords whereas this method has been shown many major disadvantages. This is due to the problem that, users tend to choose passwords that can be easily guessed and hacked by hackers. On the other hand, Considering the user has got a password which is difficult to guess, then it is difficult to remember. To overcome this kind of problem of low security, High-end Authentication methods are developed by researchers that use images as crystal clear password. In our research, we conduct a comprehensive study on the existing graphical password techniques and provide a possible solution using Graphical password schemes which have been proposed as a possible alternative to text-based schemes. This is based on the human intelligence analysis such as, humans can remember pictures better than text; Pictures are generally very easy to be remembered or recognized than text. The high-level concept is, the user is permitted to click the portion of an image, each click results in showing a next-image, in effect leading users down a “path” based on the type and portion of click on their sequence of points. A wrong click by the fake user leads down in an incorrect path, with an explicit indication of authentication failure only after the final click. Fake users more than 2 attempts will be blocked from future access.

Keywords: Alphanumerical Usernames, Graphical Password Techniques, Authentication Failure

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141 Internet of things (IoT) to make commercial avionics and aerospace smarter for aviation industry: An executive perspective

Paper ID V6I3-1496 · Pages 605-608 · Engineering

Sunilkumar Gopakumar, Collins Aerospace, United States of America

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A huge system of interconnected devices has changed the way we live our lives every day. In the field of aeronautics, IoT could also be the link that develops new developments and allows the digital aviation age to flourish. This article explains how IoT is used in aircraft and discusses a variety of cabin use scenarios.

Keywords: Avionics, IoT, Connected Cabin

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142 Implementing accident rescue system using smart phone

Paper ID V6I3-1499 · Pages 609-611 · Electronic And Communication Engineering

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With the increased population rate around the world, the rising demand for automobile has increased the traffic leading to more accidents on the road. The time between the occurrence of the accident and the arrival of the emergency responder the scene is very important and reducing this time may affect the number of fatalities. This project will provide the optimum solution to the above. This proposed system will help to send the information messages to nearby emergency services and the accident location for the timely response. In this project, the accelerometer sensor ADXL355 is used to detect any hit of the vehicle and will send the signal to the Arduino microcontroller. The Arduino UNO is used which send the signal to the main processor and the alert system along with the location o the accident will be sent to the rescue teams and GPS technologies are used in our project.

Keywords: Arduino, GSM, GPS, Accelerometer, LCD Display

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143 Platform for patrons

Paper ID V6I3-1508 · Pages 612-613 · Computer Engineering

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Many of us feel that we can do a lot to help those in need. It can be to help people in poverty or for a cause. A lot of organizations are trying to help people in their own unique way amidst many problems they are facing. But there is a gap in this process where we, the people do not know or do not trust or to put it simply don't have enough proof that what we do will have an impact. The idea of helping others in a trustworthy, transparent and comfortable way with the tap of a button would help people take a step forward and make a difference

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Keywords: Patron, Justgiving, Bharath Ke Veer, ReFed, Karma

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144 Prediction and diagnosis of liver disease

Paper ID V6I3-1509 · Pages 614-616 · Engineering

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India having a population of approx.1.3 Billion is the second most populated county in the world and each year millions are diagnosed with liver diseases. Some types of liver diseases are Jaundice, Hepatitis (A, B, C), Fatty Liver Diseases (FLD). These are caused due to consumption of alcohol, contaminated food, obesity, etc. For a common man, it is not practical to diagnose these diseases thus we need a system that is reliable and can predict the symptoms of liver disease. This system predicts liver disease using the patients' data and the Naïve Bayes algorithm.

Keywords: Naive Bayes Algorithm, Liver Disease, Python Programming

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145 Hand gesture control used for automating human activities

Paper ID V6I3-1511 · Pages 617-622 · Computer Science And Engineering

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Generally, we designed a real-time human-computer interaction system based on hand gestures. The whole system consists of three components: hand detection, gesture recognition, and human-computer interaction (HCI) based on recognition and realizes the robust control of mouse and keyboard events with higher accuracy of gesture recognition. Specifically, we use the convolutional neural network (CNN) to recognize gestures and makes it attainable to identify relatively complex gestures using only one cheap monocular camera. We introduce the Kalman filter to estimate the hand position based on which the mouse cursor control is realized in a stable and smooth way. During the HCI stage, we develop a simple strategy to avoid the false recognition caused by noises mostly transient, false gestures, and thus to improve the reliability of interaction. The developed system is highly extendable and can be used in human-robotic or other human-machine interaction scenarios with more complex command formats rather than just mouse and keyboard events.

Keywords: Gesture Recognition, Human-Computer Interface (HCI), Convolutional Neural Network (CNN), Contour Detection

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146 The freedom of dark web: A digital scrutiny of terrorism on the dark web

Paper ID V6I3-1468 · Pages 623-629 · Computer Science And Engineering

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The terms Deep Web, Deep Net, Invisible Web, or Dark Web allude to the substance on the World Wide Web that isn't recorded by standard web indexes. One can depict the Internet as made out of layers: the "upper" layer, or the Surface Web, can without much of a stretch be gotten to by standard quests. Be that as it may, "further" layers, the substance of the Deep Web, have not been filed by customary web crawlers, for example, Google. Michael K. Bergman who composed the fundamental paper on the Deep Web, contrasted looking through the Internet with hauling a net over the outside of the sea: an extraordinary arrangement might be trapped in the net, however there is an abundance of data that is more profound and thusly missed[1]. Truth be told, a large portion of the Web's data is covered far down on locales, and standard web indexes can't get to it.

Keywords: Deep web, Dark Web, Internet, Terrorism on the Internet

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147 Importance of model studies in finalizing the hydraulic design of energy dissipator and plunge pool downstream of spillway- A case study

Paper ID V6I3-1502 · Pages 630-639 · Civil Engineering

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For a number of decades, the art of hydraulic modeling has been an important tool in solving complex hydraulic problems. It entails, with a degree of sophistication that varies with the objective of the investigation, the use of a scaled model for replicating flow and fluid transport processes in diverse natural flow systems and for evaluating the performance of hydraulic structures. A lack of understanding of physical processes or complex boundary conditions in many fluid mechanics/ hydraulics problems which are not amenable by numerical or analytical techniques is investigated by physical models. Physical model studies are indispensable tools to optimize various dam components and appurtenant structures. The present paper includes one case study of a dam project in which the importance of hydraulic model studies conducted on a 1:70 scale 3-D comprehensive model for evolving the hydraulic design of spillway, energy dissipator arrangement, and plunge pool downstream of the ski-jump bucket has been discussed.

Keywords: Physical Model, Ski-Jump Bucket, Tail Water Levels, Water Surface and Scour Profile, Pre-Formed Plunge Pool

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148 A statistical approach on experimental study for determining switching frequency of retro reflector sensor using PLC

Paper ID V6I3-1458 · Pages 640-647 · Automation Technology

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Automation is a multidisciplinary platform that involves controls and drives. Though drives and controllers build automation together without sensors it is not possible. Sensors are the vital device that interacts with the physical environment and responds to the system in the form of input. These inputs are further processed based on the predetermined programming in controllers to give the respective output via drives. Industrial sensors are broadly classified as a retro-reflective sensor, capacitive sensor, photoelectric sensor, ultrasonic sensor, and a magnetic sensor. The reliability and switching frequency of the sensor is the key factor to determine the performance of the system. In this paper, a detailed study on one such key factor named switching frequency is taken for experimental study with retro-reflective sensors. The significant study of the switching frequency and the comparison of the performance the statistical methods like descriptive statistics, correlation, and chi-square test are used.

Keywords: Switching Frequency, PLC, Retro-Reflective Sensor, Correlation, Chi-Square

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149 Beam steering antenna array for multiband applications

Paper ID V6I3-1491 · Pages 648-650 · Electronics And Communication Engineering

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A beam steering is mainly used in the Near field communication(NFC) devices and radio communication system. Beam steering is the process of changing the direction of the main lobe of the radiation pattern which is done by switching antenna components or by changing the phase of the signal. Low loss phase shifters can be used to perform beam steering ,by which the direction of main lobe can be controlled at THZ . The switched line phase shifters are the commonly used one which is designed by using 2 transmission lines are reference line and delay line.

Keywords: Microstrip Patch Antenna, Antenna Array, Beam Steering, Multiband Frequency

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150 Enhancing QoS in MAC layer for IoT enabled multihop mobile networks

Paper ID V6I3-1497 · Pages 651-656 · Manet

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Mobile Adhoc Networks (MANET) within the Internet of Things (IoT) framework is one of the most important wireless networks in which mobile nodes are interconnected and transmit packets in a distributed way to provide various IoT oriented services. The heterogeneity characteristic feature of IoT poses technical challenges on the MAC layer such as the increasing network traffic load, heterogeneous Quality of Service(QoS) demands. To overcome these problems, a superframe structure is designed that helps to prioritize voice and data packets and that helps to improve the performance in MANET. Within each superframe, voice packets access the channel in a contention-free period (CFP) for its transmission and data packets content for channel access in a contention period (cp). so, the maximal QoS performance is achieved by adapting to the network traffic load variations and that supports the heterogeneous QoS demands. In addition to the large coverage area, the multihop connection is enabled that helps to reduce the energy consumption of the nodes

Keywords: Voice And Data Separation, Bit Matrix, Channel Access, Multihop Mobile Networks, QoS

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151 Third eye for blind using ultrasonic sensor

Paper ID V6I3-1500 · Pages 657-660 · Electronics And Communication

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The third eye for the visually impaired is an advancement with the assistance of multidiscipline subjects like software engineering. As per WHO, 39 million individuals are blind. They are facing hardship in their daily life .so this project will be a wearable innovation for the blinds. By using an ultrasonic sensor this device senses the hurdles on wy of blinds.

Keywords: Arduino, Wearable Gloves, Buzzer, Ultrasonic Sensor, Compact

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152 Application of power system stabilizers for enhancement of power system stability in single machine infinite bus and multi machine infinite bus by fuzzy logic controller

Paper ID V6I3-1520 · Pages 661-665 · Electrical Engineering

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The power system is a dynamic and highly integrated system. Due to the large scale interconnections and highly nonlinear systems that operate in an uncertain environment where load, generator output, and operating parameter change continuously. So that it is constantly being subjected to low-frequency oscillation due to disturbance. These low-frequency oscillations cause a loss of synchronism and a breakdown of the entire system. The main function of the automatic voltage regulator is to monitor the output voltage of the generator and continuously maintain the constant terminal voltage of generator and hence it improves the transient stability of the power system. A power system stabilizer is used to generate a supplementary control signal for the excitation system in order to damp the low-frequency oscillation. The traditional solution to this problem is the application of a conventional power system stabilizer. The conventional power system stabilizer which uses lead-lag compensation where the gain setting design for the specific operating conditions is giving poor performance under different loading conditions. It is very difficult to design a stabilizer that could present good performance in all operating points of the electric power system. To overcome the drawback of the conventional power system stabilizer numerous techniques have been proposed. When the effect of power system stabilizers in damping of low-frequency oscillations in a multi-machine power system with different load combinations. If various load models considered are constant impedance load, a mixture of constant impedance, and constant current load and mixture of constant impedance and constant power load. The fuzzy logic power system stabilizer for stability enhancement of multi-machine power system. In order to accomplish the stability enhancement, speed deviation, and acceleration of the rotor of the synchronous generator of the multi-machine power system were taken as the input to the fuzzy logic controller.

Keywords: Power System Stabilizer, Conventional Power System Stabilizer, Single Machine Infinite Bus System, Multi Machine Infinite Bus System, Fuzzy Logic

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153 Mental well-being of professionals during Covid-19 lockdown: A study through the introduction of JUMA framework and JMI

Paper ID V6I3-1396 · Pages 666-678 · Neurobiology

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Covid-19 pandemic and related global lockdown brought the world to a standstill. Apart from the infections and deaths, the lockdown was also impacting the mental well-being of professionals. This could be because of extended lockdowns, work from home (or lack of it), economic uncertainty or other factors. There was a need to understand and measure the impact due to Covid-19 lockdown on professionals. To address this need, a study

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was conducted amidst the lockdown. The study was based on three themes, viz. Simplicity, Quantifiability, and Generation of Non-obvious insights. Under the theme of Simplicity, a new JUMA framework was designed and a survey (titled ‘Lockdown & me’) was launched for the carefully chosen samples. The framework was scientific, yet easy to use for a lay person. The survey was well received and responded, and the data was objectively aggregated using the new JMI (mental well-being Index) in line with the theme of Quantifiability. Finally, the data was studied for patterns and analysed using statistical techniques like ANOVA. This led to some critical Non-obvious insights - like ‘professionals of 32-41-year age group are most stressed’ or ‘women are more stressed than men’.

Keywords: COVID-19, lockdown;, JUMA framework, JMI, Mental well-being, Stress

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154 Peer to peer learning- An effective tool in students learning

Paper ID V6I3-1433 · Pages 679-681 · Mechanical Engineering

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Innovative teaching methods have to be adopted in today’s mindset of youngsters. Outcome-based education have to a giant leap forward to improve technical education in India and ensure learning registers in their young minds and make them compete with their competitors around the world globally. This can be achieved only if the knowledge posed by them is deep routed and are strong with their concepts. Innovative teaching methods which are the most subsets of Outcome-based education is a strong encouraging platform for students to encourage learning the concepts from their peers by which they encompassed with easy way learning. They seem to have more focused and fun during their learning process. Finally, the outcome is measured through knowledge of Via their internal assessment. As all the engineering colleges follow NBA accreditation in deciding the quality of the students, they have also streamed and asked to adopt modern ways of teaching such as ICT, Model Demonstration, flip class, poster presentation, etc. In such an attempt an effort has been taken to show how effective will be peer to peer learning in the form of flip class. In this present paper, a case study is developed through CO-PO mapping and attainment for Mechanical Engineering Students of Tier-II.[2] for the VII semester Mechanical Engineering Students for the subject “Operations Research

Keywords: CO-PO Mapping, Outcomes-Based Education, Innovative Teaching Methods, Attainment

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155 E-assessment using image processing in infinity exam

Paper ID V6I3-1518 · Pages 682-685 · Computer Science And Engineering

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This paper features a software system called ∞Exam (Infinity Exam) which supports (primarily in higher education) paper-based examination and makes it easier, more comfortable, and speed up the whole process while making keeping every single positive attribute of it but also reducing the number of negative aspects. The approach significantly differs from the ones used in the previous 10+ years which were implemented in

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such a way that they could not reproduce and replace the traditional based paper examination model. The heart of the article relies on the most important element of the software which is the image processing flow. The way of conducting testing the knowledge of a person using Multiple Choice Questions (MCQ) has been increased gradually. In education industries (like schools and colleges) it is more common now days having tests using multiple-choice questions. Even in conducting interviews, it is used. The current day scenario is either using OMR technology to correct the test or manually. In real-time, it is quite difficult to have OMR at all the time and manually it is highly taking the time to correct and it may give you the error. We address this issue, in our proposed system we using digital image processing technique to correct the answer using multiple choice questions in python. We are here using the Open Source Computer Vision Library (Open CV) to process and correct the answer. Python is the best language to implement this concept with the available Open CV library. In this system, we also implement it in the Django environment.

Keywords: E-assessment, Computer-based assessment, Computer-assisted assessment, Computer-aided assessment, Examination, Exam, Image processing

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156 Face Recognition Attendance System

Paper ID V6I3-1524 · Pages 686-689 · Computer Science And Engineering

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The Real-time Attendance Maintaining System is difficult process if it is done manually. It is an important requirement in the modern era to improve the working efficiency of the entire private and public sector. There are many smart and automated forms of biometrics to monitor the movement of students or employees such as fingerprint, palm scanning, iris,voice recognition etc. Face Recognition is one of them. By using this system, the issue of fake attendance and proxies can be solved. This paper suggests a robust procedure for monitoring attendees using facial recognition. The method proposed here for real-time character identification involves a facial recognition technique using Haar-like features with a Cascade classifier. For the purpose of face recognition histogram of local binary patterns (LBPH) are used. The major steps in the proposed system are capturing the images of the students, storing the captured images in the database, detecting the faces and recognizing them. The comparison is done by crosschecking the detected face with the database of student's faces. This smart system will be effective way to maintain the attendance and records of students.

Keywords: Haar Cascade, Linear Binary Pattern Histogram (LBPH), Web app, Face detection, Face recognition

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157 Wireless power transmission system using microwaves

Paper ID V6I3-1494 · Pages 690-694 · Electrical Engineering

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It has become an important undeniable fact that power transmission is optimum and losses are decreased, and thus it is necessary to search out new ways in which for power transmission which may be helpful to the industry, hence the need to use wireless systems is vital The transfer of power from the source to the receiver is a technology that has existed for over a century. Wireless power transfer (WPT) has been created possible in recent years thanks to advances in technology and higher implementations of transfer techniques, like Microwave Power Transfer (MPT). The MPT system works by converting power to microwaves through a microwave generator and then transmitted that power through free space wherever it is received and born-again back to power at a special device referred to as rectenna. The applications of MPT are numerous, not solely to alter the approach existing technologies work, however additionally as historical constructs for future constructs. Whereas the advantages are nice, there squared several measured limitations and drawn sides of MPT, necessitating the discussion of attainable strategies WPT. The transfer of power wirelessly has the potential to fully disrupt and revolutionize existing and future technologies.

Keywords: Magnetron, Rectenna, Waveguide, Linear Regression, Near-Field Technique, Far-Field Technique, Boost Converter

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158 Impact assessment of land use land cover change on sediment yield using SWAT Model

Paper ID V6I3-1514 · Pages 695-706 · Water Resource Engineering

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Quantifying the impacts of land use change and land cover practices on the hydrological response of a watershed has been an area of interest for the hydrologists in recent years as this information could serve as a basis for developing sound watershed management interventions. This thesis aims at evaluating the effects of land use land cover change on sediment yield using SWAT model simulation in Gadarwara watershed located in Narmada Basin. The degree and type of land cover influences the rate of infiltration, runoff and total sediment loads transported from a watershed. It often results in significant degradation of land resources such as loss of soil by erosion, nutrient leaching and organic matter depletion. However very few studies in India, have used the physically based hydrological models along with the land use land cover change conditions. Hence in this current work SWAT model has been used to assess the impact of land use land cover changes on monthly sediment of Narmada River Basin. The SWAT model has been calibrated and validated against the monthly streamflow for the gauging station of Gadarwara, situated along the Shakkar River. The results depict that SWAT model usually performs well in simulating runoff according to Nash-Sutcliffe efficiency (NSE), Coefficient of determination (R2) and Percentage bias (PBIAS) values. For stream flow the NSE, R2 and PBIAS values were

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0.86, 0.89, 12.2 during calibration period and 0.83, 0.87 and 14.5 during validation period respectively. For sediment the efficiency decreased due to less availability of data and the NSE, R2 and PBIAS values were 0.66, 0.68 and -10.9 during calibration period and 0.65, 0.67 and -5 during validation period respectively. The results of the study indicated that increase in forested areas result in decreasing sediment yield Agriculture land contributes mainly in sediment yield hence reduction in agriculture land leads in reduction of sediment yield and increase in agriculture land results in increase of sediment yield.

Keywords: Land Use Land Cover Change, Civil Engineering, Sediment Yield, Swat Model

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159 Investigation into some of the engineering properties of soil in Damot Gale district

Paper ID V6I3-1345 · Pages 707-716 · Geotechnical Engineering

Tsegaye Matalo, Wachemo University, Shewa, Ethiopia

Investigation of the sub-surface condition is used for the effective design of the structural elements. It is also very crucial to obtain information on the type, characteristics, and distributions of soil and rock underlying a site for proposed structures. I investigate some of the engineering properties of soils collecting 20 disturbed and 10 undisturbed soil samples from 10 different test pits at the average depth of 1.5m to 3m and laboratory tests conducted. The natural moisture content of soil ranges from 24% - 44.47% and bulk unit weight range from 16.4 to 19.7 kN/m3. The specific gravity of soil varies from 2.57 to 2.84 and the particle size analysis showed that the dominant proportions of soils in the study area are the clay. Consistency limit test results in the research area showed the liquid limit ranges from 46 to 73%, plastic limit ranging from 13 to 38%, and plasticity index ranging from 13 to 38 %. The unconfined compressive strength of the soils in the study area ranges from 80 -215kN/m2 and undrained shear strength range from 40 – 107.5 kN/m2. Finally, a one-dimensional consolidation test was done.

Keywords: Soil investigation, Engineering properties, Disturbed, Undisturbed, Test pit

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160 Retrofitting of concrete member subjected to fire

Paper ID V6I3-1507 · Pages 717-722 · Civil Engineering

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This paper presents an experimental investigation for evaluating the effects of fire exposure on the properties of structural elements retrofitted by fiber-reinforced polymers (FRPs). Mechanical properties of FRP-strengthened reinforced concrete (RC) members, protected with secondary insulation, were investigated, before and after (residual) direct fire exposure. Direct fire contact resulted in a reduction in the capacity of 9%

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to 20% for FRP-strengthened RC beams and 15% to 34% for FRP-strengthened RC columns. Furthermore, a similitude analysis was developed for a heat transfer relationship between full-scale and small-scale specimens, allowing a one-fourth exposure time reduction for the latter. Results from the experimental investigations demonstrated the benefits of employing secondary fire protection to FRP-strengthened structures, despite the glass transition temperature being exceeded in the early stages of the elevated-temperature exposure. Therefore, it is suggested that fire protection is necessary for an FRP-strengthened structure to retain integrity throughout the duration of the fire exposure and on return to ambient temperature. Retrofitting RC structures with adequate fire resistance by contributing to the missing information for fire protection requirements not available in codes of p. Apart from the test data, relations defining the variation of strength and elastic modulus of CFRP and GFRP with temperature are available in the literature. These relations are proposed by [8][9][10][11]33,35,39,40]; for FRP. The majority of these relations define the temperature-dependent variation in strength properties of CFRP, while relatively few relations define the variation in strength properties of GFRP. Additionally, most of these relations are in form of semi-empirical equations and express the variation of strength and stiffness of FRP up to 800 &#65533; C, whereas some relations are in the form of reduction factors providing percentage degradation in ambient temperature strength and stiffness of FRP at different temperature level. Saafi [40] proposed linear/bilinear relations for expressing degradation of strength and stiffness of GFRP and BFRP at elevated temperatures. These relations are based on the tests carried out on GFRP and BFRP rebars reported by Blontrock et al.

Keywords: CFRP, GFRP, BFRP, EPOXY RESIN

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161 Sexual harassment at workplace

Paper ID V6I3-1533 · Pages 723-726 · Societal Cause

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In this era of patriarchal society, where everyone deem to have adopt western culture could not change their thinking against goddess of the nation which is women. Nowadays crimes have been increased at a very high rate. Crimes in the nation have been increasing at a very high rate but crimes against women have taken a major boom. One of the major crimes is sexual harassment at workplace against women. Women are being suppressed from the very beginning and the men are used to take advantage of this and harass women and make them feel humiliated. Sexual Harassment At Workplace against women knocked doors of legal system in the case of Vishaka V/S State Of Rajasthan in the year 1997 where honorable Supreme Court gave a set of guidelines for the cases dealing with sexual harassment at workplace. Even after having guidelines and acts for the same the men take advantage of loopholes in the legal system and does not leave any table unturned in order to suppress women and make them feel insecure and humiliated. What is sexual harassment? Sexual harassment is a sexual behavior against the wish either directly or by implication through physical contact , a demand or force for sexual pleasure, showing pornography or implicating sexual action on exchange of any demand through force and any act which is humiliating or sexual in conduct either spoken or written or through actions. “Sexual Harassment at workplace is suppressing women or making them feel humiliated or insulting them or making them feel insecure or sexually harassing them at the workplace.” The definition still remains subjective and depends on how the judges interpret the citation put before them. It can make a person feel

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humiliated or offended. It can be verbal, physical or written. It has existed in the past and has become a source of discussion. A job or educational performance is conditioned on sexual pleasure. “Hostile work or educational environments can be created by actions such as addressing women in crude or objectifying terms, posting pornographic images in the office and by making derogatory or demeaning or humiliating statements about women like anti-female jokes.” Even after adopting a modern society the mind set of people will never change with respect to a woman. Many women feel unsafe even at workplace where good environment is a major clause for profit of the organization. Even if women complain about it to anyone specially illiterate women they are also being suppressed and are threatened or tortured if they raise their voice against men of the nation. Is this even about gender inequality that men of the nation can do whatever they want even without having any fear of the law? Even after adopting all the values given by the families where does the ethics and respect of men go toward women? Why they think they can do anything to women and can get safe without being punished? Is this because of women not being educated enough or small girls who are sent to big houses for non-employed works? Or is sexual harassment at heights due to illiterate and unemployed population of the nation? Even after having laws enforced or act for prevention of sexual harassment at workplace against women it is practiced almost in every one of 5 workplaces in developing nation like India. The troubles women has to face at workplace even gives a decline in efficiency and effectiveness of the women that is being humiliated and other women that are even working. Patriarchy has gone into heights at such a rate where men have made joke of women and even laws of the nation. I would like to address all such questions in my research paper and answer all these questions as we further.

Keywords: Patriarchy, Gender Inequality, Unemployment, Workplace, Suppressed, Sexual Pleasures, Discrimination, Manipulating, Efficiency, Effectiveness, Infringement of Fundamental Rights

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162 Performance analysis of high wing for a micro class unmanned aerial vehicle

Paper ID V6I3-1490 · Pages 727-731 · Aeronautical Engineering

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The paper deals with the design and performance analysis of high wing of a Micro Class Unmanned Aerial Vehicle. The wing design involves its initial considerations like and weight of the aircraft, planform selection, selection of airfoil, area of the wing and wing loading characteristics. The design is done based on the calculated values and performance analysis is done to show airfoil characteristics, and performance of the wing with the help of XFLR5 software. The objective of this project is to compare the results obtained for different wing planforms, different angle of attack over a range of speeds. From the results we will conclude which wing configuration meets the payload lifting goals. Selection of wing configuration is an iterative process. The iterative process allows us to accommodate other design criteria such as catering storage, systems installations (high lift devices, attachment of motors and the main undercarriage) which may or may not be directly related to the goals of the mission. The result of iterative optimization is typically a compromise in configuration which best satisfies the overall needs of the mission. The final decision upon configuration will represent a compromise based on design priorities

Keywords: Coefficient, Lift, Drag, lift to drag ratio, Angle of Attack, Fluid density, Fluid velocity, Characteristic length, Chord

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Length, Dynamic Viscosity

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163 Experimental analysis of axially loaded CFST columns over RC column

Paper ID V6I3-1521 · Pages 732-738 · Structural Engineering

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In recent years, the use of Concrete Filled Steel Tube columns is increased significantly in medium-rise to high-rise buildings, therefore to understand the deformation characteristics of Concrete Filled Steel Tube columns critically Over Reinforced Concrete Columns, Extended Three Dimensional Building System ETABS Software is used. This paper focuses on a comparative study of Concrete Filled Steel Tube columns over Reinforced Concrete Columns under axial compressive loading. Two kinds of columns, including CFST column with varying size and conventional column were tested. The experimental results showed that the CFST column has a higher bearing capacity, more effective plastic behavior, and greater stiffness.

Keywords: CFST Column, RCC Column, ETABS

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164 Handwritten text pattern recognition

Paper ID V6I3-1541 · Pages 739-742 · Computer Science And Engineering

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Character recognition from handwritten images is of great interest in the pattern recognition research community for their good application in many areas. To implement the system, it requires two steps, viz., feature extraction followed by character recognition based on any classification algorithm. A convolutional neural network (CNN) is an excellent feature of extractor and classifier. It is having multiple applications fields such as robotics, medicine, and security and surveillance. In this article, CNN is implemented for the NIST dataset with appropriate parameters for training and testing the system. The system provides accuracy of up to 94%, which is better with respect to others. It also takes a very low amount of time for training the system.

Keywords: Convolutional Neural Network (CNN), TensorFlow, Python, OpenCV, Flask, Jinja Template, Kerass, Fetch API, CSS Frameworks, Representational State Transfer

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165 Retirement Community – A safe haven for the elderly

Paper ID V6I3-1543 · Pages 743-747 · Architecture

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There was a time when senior care in India was confined to old age homes. These old age homes, often managed by charitable organizations provided shelter and basic facilities for older people of lower economic status. The concept of retirement homes was unheard of until a decade ago. This paper showcases seniors in India as a demographic segment, bringing out the key trends in senior housing. The entrenched social norm hints towards a moral obligation for children to assume the responsibility in caring for their aging parents. Retirement homes were perceived as the last – resort for older people who did not have anyone to care for them. However, the perception of a retirement home as a shelter for destitute older people is slowing changing. The main catalyst for this change is urbanization and changes to traditional family structure, while most continue to stay with their children, a large number of middle and upper-class seniors, especially those whose children have moved abroad or other cities for work, are opting to pack up their homes and move to 'Retirement Communities' or 'Senior Living' facilities to continue living independently to enjoy their post-retirement life without any hassle. This paper concludes with a discussion on the importance of retirement community in the present-day scenario as a boon for both children and aged parents, highlighting the gradual change in the stigma attached to it.

Keywords: Retirement Community, Senior Living, Age in place concept, Social connectedness

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166 A system for profiling and monitoring database access patterns for application programs by anomaly detection

Paper ID V6I3-1551 · Pages 748-752 · Computer Science Engineering

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Database Management Systems (DBMSs) provide access control mechanisms that allow database administrators (DBAs) to grant application programs access privileges to databases. Though such mechanisms are powerful, in practice finer-grained access control mechanism tailored to the semantics of the data stored in the DMBS is required as a first-class defense mechanism against smart attackers. Hence, custom-written applications that access databases implement an additional layer of access control. Therefore, securing a database alone is not enough for such applications, as attackers aiming at stealing data can take advantage of vulnerabilities in the privileged applications and make these applications to issue malicious database queries. An access control mechanism can only prevent application programs from accessing the data to which the programs are not authorized, but it is unable to prevent misuse of the data to which application programs are authorized for access. Hence, we need a mechanism able to detect malicious behavior resulting from previously authorized applications. In this paper, we present the architecture of an anomaly detection

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mechanism, DetAnom, that aims to solve such a problem. Our approach is based on the analysis and profiling of the application in order to create a succinct representation of its interaction with the database. Such a profile keeps a signature for every submitted query and also the corresponding constraints that the application program must satisfy to submit the query. Later, in the detection phase, whenever the application issues a query, a module captures the query before it reaches the database and verifies the corresponding signature and constraints against the current context of the application. If there is a mismatch, the query is marked as anomalous. The main advantage of our anomaly detection mechanism is that, in order to build the application profiles, we need neither any previous knowledge of application vulnerabilities nor any example of possible attacks. As a result, our mechanism is able to protect the data from attacks tailored to database applications such as code modification attacks, SQL injections, and also from other data-centric attacks as well. If the data is attacked by the insider and he modifies the data, we could be able to recover the original file with the help of our mechanism. We have implemented our mechanism with a software testing technique called consoles testing and the PostgreSQL DBMS. Experimental results show that our profiling technique is close to accurate, requires an acceptable amount of time, and the detection mechanism incurs low run-time overhead.

Keywords: Data Owner, Application Server, Signature Generator, Signature Comparator, End User, Attacker

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167 Hybrid technique of data security by ECS (Encryption, Compression, Steganography)

Paper ID V6I3-1483 · Pages 753-758 · Data Security

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The security of confidential data has long been a serious concern, and as a result, data security is in huge demand. Data is considered an important aspect of an asset and must be protected. Data Protection comprises data integrity, data authenticity, data confidentiality, and then some. Data is prone to possible security risks despite several measures for protecting data including steganography, encryption, and compression. The great reason is the disadvantages of these particular methods when certain factors are taken into account. Cryptography provides security, but it is expensive when time and space are considered. Compression methods encrypt data and save disk space, but attackers can easily decompress these compressed files. Steganography is a technique that hides data, does not encrypt it, and also has its advantages and disadvantages. This article details the approaches to data protection (compression, steganography, and compression) and their possible pros and cons. An extensive comparison between these techniques was generated and as a result, a hybrid approach called ECS (Encryption, Compression, and Steganography) was proposed. The proposed method utilizes particular approaches to overcome the limitations of existing techniques while also maintaining low complexity and minimal complexity and rich data security.

Keywords: Cryptography, Data Security, Decryption, ESC (Encryption, Steganography, Compression)

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168 To analysis mechanical properties in a different composition of a cylindrical block

Paper ID V6I3-1531 · Pages 759-763 · Manufacturing

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The hardness of the cylinder block is studied using Brinell-Hardness testing machine. Tooling problem occurred castings were collected for analysis. From which hardness testing carried by Brinell hardness testing machine and the hardness values observed with higher side against the specification. Followed by micro structure evaluation comparing with the ASTM A 247 standard. And the graphite form present Type D and E instead Type A graphite. Knowing the constituents present in it, properties of every single metal present in it, is studied and modifying the alloying elements; Copper (Cu) & Tin (Sn), as Pearlite structure and hardness greatly depends on it, the hardness of the cylinder block is improved. Hence, this could be easily distinguished by being compared as, before and after. The Before criteria, states a failure sample with a higher Cu and Sn composition along with the alloy composition, whereas, the After criteria, states an optimised sample with reduction of Cu and Sn composition along with the alloy composition of the analysed diesel engine block .

Keywords: Brinell-Hardness, ASTM, Casting, Spectrometer

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169 Design and fabrication of pipe bending machine

Paper ID V6I3-1522 · Pages 764-768 · Mechanical

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As we know that pipe bends are used in various household & industry things therefore it is necessary to build an economical pipe bending machine. It is also used in designing of various machine components, without this bending device a machine can’t work properly. As far as the industrial application is concerned it is used for piping purposes. The reason to design a bending machine is because there is no proper bending machine to bend a hallow pipe for small scale. Pipe bending machines are typically human-powered, pneumatic powered, hydraulic assisted, or electric servo motor. In the pipe bending operation the tube may be supported internally or externally to preserve the cross-section of the pipe. In this study, manually operated pipe bending machine is fabricated. This machine is used to bend pipes into circular shapes. The size of the machine is very convenient for portable work. It is fully made of mild steel. Moreover, it is very easy to be carried and used at any time and any place.

Keywords: Roller, Benging, Pipe, Tube

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170 **An exploratory study on the perspectives and practices of contraceptive use among married females of reproductive age group (15-49 years) of selected urban areas of District Sirmour (Himachal Pradesh)**

Paper ID V6I3-1530 · Pages 769-779 · Nursing

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Contraception is a process or technique for preventing pregnancy by means of medication, device or method that blocks or alters one or more of the processes of reproduction in such a way that sexual union can occur without impregnantion. Objectives: To assess the perspectives of contraceptive use among married females of selected urban areas of Dist. Sirmour (HP), to identify the contraceptive practices among married females of selected urban areas of Dist. Sirmour (HP), to associate the perspectives and practices of contraceptive use with the selected socio demographic variables of married females. Method: The study has adopted quantitative research approach and exploratory research design. Total 238 samples were selected based on inclusion and exclusion criteria through multistage cluster sampling technique. Data was collected in terms of socio demographic profile of the married females, semi structured questionnaire and likert scale was used to assess the perspectives of contraceptives use, semi structured checklist was used to assess the practices of contraceptives among married females. Results: Major findings of the study revealed that most of the married females i.e. 111(47%) were between the age group of 20-29 years, 171(72%) belonged to hindu religion, 113(47%) were graduate or above, 75(32%) were self-employed, 137(58%) were having duration of marriage between 1-10 years, 203(85%) were living with spouse and children, 152(64%) were having 1 child, 94(39%) had monthly family income (in rupees) between 20001-30000, 157(66%) married females were living in nuclear family, 216(91%) married females had television as the source of information and contraceptive method used was condom in 169(71%) married females. In the present study, the perspectives of married females in terms of awareness showed that 35% of females were having good awareness, 50% were having average awareness and 15% were having poor awareness. In terms of opinion, 30% of married females were having positive opinion, 70% were having neutral opinion and none of them was having negative opinion regarding contraceptive use. Majority (65%) of married females having average practices of contraceptives, only 31% of females were having poor practices and the rest 4% were having good practices. Mean and standard deviation for perspectives of contraceptive use in relation to awareness and opinion was 14.66 ± 3.98, 72.16 ± 8.24. Mean and standard deviation for practices of contraceptives were 7.71 ± 2.42. There was significant association of age, education, occupation, duration of marriage, living status, monthly family income(in rupees), type of family, source of information and contraceptive method used with perspectives of contraceptive use at p

Keywords: Married Females, Contraceptives

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171 Fashion recommendation system using CNN

Paper ID V6I3-1546 · Pages 780-783 · Computer Science And Engineering

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Recommendation systems are the techniques that are used to predict the rating one individual will give to an item or social entity. The items can include books, movies, restaurants, and things on which individuals have different preferences. These preferences are being predicted using two approaches first content-based approach which involves characteristics of an item and second collaborative filtering approaches which considers the user's past behavior to evaluate its choices. This thesis proposes a fashion recommendation system that will recommend clothing images supported the style sort of the provided clothing images. In this work, we focus on the images of the upper body as well as the lower body clothing and with the human model in the images. We have created our own datasets through web scrapping of different e-commerce websites. In this paper, we have come up with an idea to build a content-based recommendation system using ResNet-50 convolutional neural network.

Keywords: Recommendation System, Web scraping, Vue.js, Flask, ResNet-50, Web App, Content-based filtering

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172 Student placement possibility prediction using Naive Bayes algorithm

Paper ID V6I3-1555 · Pages 784-793 · Machine Learning And Ai

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The aim of my project is to analyze how we can use available student data to predict the standard of new students and the possibility of their placement. It’s a student assessment on the basis of his academic skills, Innovation, Research, and Development capabilities. Doing this can help students as well as academics to boost students' standards. Also, it helps us to design our course and extra training on the basis of it for maximum benefits to students. For this, we conducted a small survey using Google form survey and collected information about students of different colleges and universities around Chhattisgarh in the Computer science & Engineering Department and Information Technology Department. Creating a dataset for this project is not easy because motivating students to share their information is a challenging task. For predicting the result of student placement possibility we use the dataset prepared from the survey and different types of Naïve Bayes Algorithm, which is a Supervised Machine Learning Algorithm. Naïve Bayes Classifier is one of the most effective and simplest algorithms to implement for a supervised labeled dataset.

Keywords: Student Performance, Machine Learning, Naive Bayes Classifier, Gaussian, Multinomial, Bernoulli

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173 IoT based air and sound pollution monitoring system

Paper ID V6I3-1556 · Pages 794-796 · Computer Science Engineering

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The transportation sector is the major contributor to increasing air pollution levels in major cities in India. Various authorities like Road and Transportation Office monitor emission levels. This paper states how using various sensors we can measure emission levels. The data collected is compared to the standards. If it doesn't meet the standards, the vehicle owner receives an alert and the data is also sent to the RTO for further actions to be taken if needed. Thus monitoring the exhaust for presence and levels of harmful gases emitted, pollution levels can significantly be reduced.

Keywords: Air Pollution, Sound Pollution, Monitoring, Emission, Vehicle, Sensors

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174 Privacy policies of health care companies

Paper ID V6I3-1553 · Pages 797-800 · Computer Science

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The need for and importance of privacy policies across the healthcare continuum is based on the basic and fundamental human rights. International laws and regulations are linked to the physician's oath of confidentiality and secrecy. The general medical council provides formwork for healthcare to design the privacy policy to protect confidentiality. Various fields across healthcare continue like a chronic disease which might make a patient terminally ill for e.g. Human immune deficiency virus (HIV), types of cancers make patients vulnerable and depressed to a great dept. Humans are social animals and are psychologically affected by treatment. Studies are shown that the placebo effect at patients who are terminally ill has given them a chance to be more psychologically fir and healthier. The second example is international surrogacy laws, confidentiality, and privacy policies are of utmost legal importance determining the paternity of the child. Confidentiality and privacy policies are made and communicated to all stakeholders including staff and patients to ensure correct implementation and full protection of patient's data. According to the federal of the country, every organization needs to maintain privacy in policies. In an age where technology is overpowering the healthcare industry and cybersecurity threat is always looming above the head, there is a need to develop and implement more stringent privacy policies. Confidentiality and privacy policies must be communicated to the end-users so as to ensure their consent for the treatment and to boost their confidence, their data, and their treatment. These data must remain confidential at all costs. Confidentiality must be maintained while it is processing. The data processing involves creating, storing, and sharing.

Keywords: Privacy, Policy, Data, Security, Healthcare, Cloud Computing, Bigdata

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175 Effect of the regularization parameter on image-guided filter

Paper ID V6I3-1539 · Pages 801-803 · Image Processing & Computer Vision

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The guided filter is derived from a local linear model. It computes the filtering output by considering the content of a guidance image (self-image or reference image). The guided filter can be used as an edge-preserving smoothing operator that behaves better near edges. It can transfer the structures of the guidance image to the filtering output, enabling new filtering applications like dehazing and guided feathering. Moreover, the guided filter naturally has a fast and non-approximate linear time algorithm, regardless of the kernel size and the intensity range. Regularization parameter (ϵ) is one of the two important factors which determines the characteristics of the guided image applied to the input image i.e. it helps to perceive the degree of the edges of an image. In this paper, we will observe the effect of the regularization parameter on a guided filtered image.

Keywords: Guided Filter, Regularization Parameter (ϵ), Local Linear Model, Edge-Preserving Filtering

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176 An exploratory study to assess the perceptions of preconception care among undergraduate girls with a view to develop information booklet in selected colleges of district Sirmour (Himachal Pradesh)

Paper ID V6I3-1547 · Pages 804-811 · Nursing

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Preconception care recognizes that many adolescent girls and young women will be thrust into motherhood without the knowledge, skills, or support they need. Objectives: The study aimed to determine the level of perception among undergraduate girls regarding preconception care. Method: Exploratory research design was adopted to collect data from 288 undergraduate girls of the selected colleges of District Sirmour (H.P) using the multistage sampling technique. Data were collected by a self-administered questionnaire using 5 points Likert scale. Results: The present study findings showed that 37.2% of undergraduate girls had favorable perceptions regarding preconception care, 62.8% of undergraduate girls had moderately favorable perceptions (neither positive nor negative) regarding preconception care and none of them (0%) had unfavorable perceptions regarding preconception care. There was a significant association of age with the perception of undergraduate girls at the level of significance p

Keywords: Undergraduate Girls, Preconception Care, Information Booklet

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177 **Classify radio signals from space**

Paper ID V6I3-1559 · Pages 812-818 · Deep Learning

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The data we are going to use consists of 2D spectrograms of deep space radio signals collected by the Allen Telescope Array at the SETI Institute. We will treat the spectrograms as images to train an image classification model to classify the signals into one of four classes. By the end of the project, you will have built and trained a convolutional neural network from scratch using Keras to classify signals from space.

Keywords: Radio Signals, Space Signals, Seti Data, Cnn Model, Model Train

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178 **Alcohol detection system for bike using Arduino and RF**

Paper ID V6I3-1562 · Pages 819-823 · Computer Engineering

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On a survey that has been done recently, said that nearly 70% of road accidents occur due to Drunk & drive, with a range of 44% to 67% in small cities. The government has made rules that rider should compulsory wear the helmet and not consume alcohol while drving. Still the riders do not obey the rules even though huge number of fines have been imposed. Not wearing the helmet causes the rider with severe injuries which may lead to death of the rider. In order to overcome this,Smart helmet and detection of alcohol present in rider's breath is proposed. This paper attempts to explore the possibility of using the technology that would detect the level of alcohol in the blood and prevent "very-start" of the motor vehicle. The model device focused at preventing the user from driving when drunk and reduces the number of accidents occurring due to drunken driving. The model is created using Arduino Uno and Alcohol detecting sensor. The alcohol detecting sensor (MQ-3) when connected to an Arduino UNO R3 detects the level of alcohol content in blood by analyzing driver's breath. A user friendly device that uses a non-contact breath sensor to detect breath-based alcohol. The device's sensor sens saturated water vapor in human breath, and three semiconductor gas sensors detect ethanol, acetaldehyde, and hydrogen. The device can check whether the gas introduced into it is human breath and the alcohol level at the same time.

Keywords: MQ-3, Alcohol, Analyser

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179 Home automation using Arduino with android application

Paper ID V6I3-1558 · Pages 824-827 · Automation

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In Today's world, almost everyone has a personal smartphone or a smart device. With the help of Home Automation using an Android application, one can quickly do everyday household tasks with touch of a finger. Nowadays automation is playing a key role in making our life easier and maintaining our safety and security. With the help of automated tasks, one can very easily control the lights, increase or decrease the temperature of the room using smartphones. Home automation has been a major area of research in recent times. Home automation based on the android platform is designed to interface Arduino (8-bit microcontroller) to control a number of home appliances like lights, fans, bulbs, and many more using Relay. Bluetooth has been used for short-range communication. Different types of sensors have been used which are explained below. This paper provides a modern approach to automate household appliances and eliminate the traditional method of switching. It is a step towards easing the daily household tasks and help the elderly and disabled people.

Keywords: Home Automation, Bluetooth, Arduino Uno, Relay, Smartphone, Android

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180 Innovation Performance in Saudi Arabia

Paper ID V6I3-1243 · Pages 828-833 · Innovation Performance

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The reader, of this article, will find the past 8-years data for the GII score that measures the performance of innovation for Saudi Arabia which were hosted in reports published by the Global Innovation Index. These hosted data were, statistically, analyzed in order to forecast the future scores that Saudi Arabia can achieve during the next five years. The forecasting process passes through a systematic approach starting by checking the variation and distribution (using the descriptive statistics), checking the relationships (using the Person correlation coefficient) and finally developing a "regression equation" in order to be able to forecast the behavior of the GII for the next 5 years (using Box-Jenkins approach).

Keywords: Innovation performance, Saudi Arabia, Global innovation index

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181 Experimental investigation compressive behaviour of strawbale bricks

Paper ID V6I3-1535 · Pages 834-838 · Civil Engneering

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The strawbale house can be one of the best alternatives for the country like India where agriculture is still the main source of income. It is obvious that people want to live in eco-friendly houses making it as a part of environment and their life. The strawbale houses are effective in cost with high health value, aesthetic value, thermal performance, fire resistance, light weight and ecofriendly in nature. We can go with the various techniques of construction as load bearing strawbale construction or non-load bearing strawbale construction as per the circumstances. It can be one of the best alternatives for all kind of people for constructing an economic building with a sustainable material. This project gives in brief, the result of the compression strength, absorption test, impact test, hardness test on the strawbale bricks. This project includes the compression testing machine to determine the crushing strength and weighing machine to determine the weight of the bricks.

Keywords: Strawbale, Eco-friendly house, High health and aesthetic value, Sustainable material

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182 Homeopathic treatment protocol for Coronavirus

Paper ID V6I3-1566 · Pages 839-842 · Medicine

Dr. Neal Ratan Agarwala, Independent Researcher

Natural Homeopathic Treatment Protocols for SARS-group of Viral Infections, Including COV-19 The rationale here is to select the herbs and plants plant-based Homeopathic mother tinctures that will counteract the actions of the SARS-group of viruses, and have a tradition of use for such kinds of viral infections. Homeopathic mother tinctures selected from plants and herbs that have the following functions: 1) Plants specifically antiviral for the SARS-group of viruses and are also effective as antivirals for corona-viruses as a group. 2) Blocks the viral attachment to ACE-2 linkages. 3) Lowers ANG2 4) Anti-Fibrotic and hence protects the lungs from fibrosis 5) Reduces autoimmunity and increases healthy immune function 6) Reduces Inter Leukin-1beta 7) Modulates cytokine responses 8) Regulates HMGB-1 9) Increases Interferon Alfa 10) HAS-2 Inhibitor 11) Increases T-Cell count 12) Lowers TGF 13) Protects the cilia 14) Protects lungs parenchyma from hypoxia 15) Protects endothelial cells 16) Protects spleen and lymphatic system 17) Stimulates Dendritic Cell maturation 18) Anti-coagulant Since no one particular medicine can cover all the above criteria's. Hence we need a combination of medicines to cover all the above 18 criteria. Here we need to mix a number of homeopathic mother tinctures to form a combination, which will cover all the above 18 parameters, and hence we can benefit from them. For your good health Dr. Neal Ratan Agarwala BHMS (Calcutta University) DBMS, MD(Bio), PGDPC, MS(Psycho), Graphotherapy & NLP(USA) Dr Agarwala Medical 21 Rabindra Sarani Liluah Howrah 711204 WB India Ph: 9231598225

Keywords: Homeopathy, Medicine, Coronavirus, Treatment, Protocol

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183 Assessment of nutritional status and dietary pattern among women of reproductive age group (18-40 year) in an urban slum of Mumbai City- A community-based cross-sectional study

Paper ID V6I3-1585 · Pages 843-857 · Public Health

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Adults in the Asian country are stricken by the twin burden of deficiency disease, like over nutrition and undernutrition. The literature suggests that solely 52% of ladies and 57 % of men at a standard weight for his or her height. Women's health is connected to their status in society. Women's health is progressively recognized as a section that has emerged because of an increase in women's demand for distinctive health care services that contemplate gender, life circumstances, education & religion, economic & socio-cultural environments. The 3 major constructs related to comprehensive women's health outcomes embrace personal factors, the health system factors, and social, economic, and cultural factors. A community-based cross-sectional study was conducted semi-quantitative information assortment ways. The study concerned interviews employing a questionnaire, dietary intake, anthropometry, observations of clinical signs, and assessment of their public knowledge and awareness concerning health, nutrition, and sanitation. 100 ladies within the procreative cohort of 18-40 years residing at Mumbai urban slum were included. Analyses were finished with descriptive and inferential statistics. The mean BMI of the ladies was found to be 24((±10.19) kilogram / m2 with 20% of them being underweight and 36ys being overweight or obese. 28%of ladies had a waist-hip ratio of over 0.85. Dietary deficiencies additionally present in this woman reflecting their effects of the clinical signs like pale conjunctiva, menstrual problem, and maternity complications, etc. The mean general awareness score found to be 48.54 (±24.28) that mirrored that subjects possessed average information concerning health, nutrition, and hygiene. Higher prevalence of overweight and abdominal fatness was determined among urban slum women of the procreative cohort. Therefore measures are required to reinforce diet quality and education for urban slum women so that they rise in economic status and are higher nourished. It's needed to conduct the tutorial programs on health and nutritional aspects. Nutritional programs like WIC (Women, Infant, and Child) for women ought to be conducted. Improve nutrition for ladies and adolescent girls through programs that support higher nutrition for ladies and girls, as well as fortification and salt iodization.

Keywords: Urban Slum women, nutritional status, Dietary Pattern

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184 Study of physical fitness of college-level hokey and non-hokey players of Poonch district in J&K

Paper ID V6I3-1623 · Pages 858-859 · Physical Education

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Sports are an important part of just about every society, every country, and every part of our planet. In one way or another, everyone is involved in sports or some sort, whether they're playing or watching or just knows someone who does either. Many athletes compete in sports, only a few reach the highest performance level. Certainly, not everyone has the same potential in the beginning. From this study, it has been observed that

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there is no significant difference has been found on one and half-mile run while comparing hokey players and non-hokey players of district Poonch. Also there was no significant difference observed on sit up among -hokey players and non-hokey players. Hokey players and non-hokey players did not show any difference on sit and reach test i.e. flexibility as well from the aforementioned district among college students.

Keywords: Hockey Players, Non-Hockey Players, Physical Fitness

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185 A descriptive study to assess the level of knowledge regarding prevention of Non – Communicable Diseases (NCDs) among students in selected schools of district Sirmour H.P. in a view to develop information booklet

Paper ID V6I3-1590 · Pages 860-867 · Nursing

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Chronic non-communicable diseases are assuming increasing importance among the adult population in both developed and developing countries. A large percentage of NCDs are preventable through the changes in the lifestyle. The leading cause of NCD death in 2012 were: cardiovascular diseases (17.5 million deaths or 46.2 per cent of NCD death), cancer (8.2 million or 21.7 per cent of NCD deaths), respiratory diseases, including asthma and chronic obstructive pulmonary disease (4 million or 10.7 per cent of NCD deaths), and diabetes (1.5 million or 4 per cent of NCD deaths). The preventive attack on chronic diseases is based on the knowledge that they are multi-factorial in causation, so their prevention demand a complex mix of interventions. Some of the interventions that should be undertaken immediately to produce accelerated results in term of lives saved, disease prevented and heavy cost avoided are as follow:- Restrictions on marketing of foods and beverages high in salt, fats and sugar. It is important to have knowledge regarding NCDs from childhood period. So the present study was taking up to assess the knowledge regarding the prevention of non-communicable diseases. Healthy nutrition environments in schools. Nutrition information and counselling in health care and national physical activity guidelines. Objectives: The study aimed to determine the level of knowledge regarding the prevention of non-communicable diseases. To determine the association between knowledge regarding prevention of NCDs with selected socio-demographic variables. To develop and provide the information booklet for prevention of non– communicable diseases (NCDs) to the students of selected schools of district Sirmour. Method: Descriptive research design was adopted to collect data from 380 students of the selected schools of District Sirmour (H.P.) using the convenient sampling technique. Data was collected by knowledge questionnaire. Result: Result revealed that the present study findings showed that 87.9% of the students were having average knowledge, 9.5% were having poor knowledge and 2.6% were having good knowledge. There is significant association between age, gender, type of family, residence, family history of any NCDs. p-value

Keywords: Students, Prevention of NCDs, Information booklet

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186 Effectiveness of educational programme on knowledge of mothers regarding child sexual abuse in District Sirmour, Himachal Pradesh – A pilot study

Paper ID V6I3-1594 · Pages 868-873 · Nursing

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Child sexual abuse, also called child molestation, is a forms of child abuse in which an adult or older adolescent uses a child for sexual stimulation. Childhood Sexual Abuse (CSA) is a major concern that causes greater psycho-social impact on the children. This study aims to develop and evaluate the effectiveness of educational programme regarding prevention of child sexual abuse on level of knowledge among mothers. Objectives: to assess the pre-test level of knowledge regarding prevention of child sexual abuse among mothers, and to determine the effectiveness of educational programme on the level of knowledge regarding prevention of child sexual abuse among mothers, to find out the association between the pre-test score on level of knowledge on prevention of child sexual abuse with the selected socio demographic variables of the mothers. Method: The study has adopted quantitative research approach and pre-experimental design (one group pre-test and post-test design). Total 10 mothers were selected based on inclusion and exclusion criteria through non convenience sampling technique. Data was collected in terms of socio demographic profile of the mothers, self-administered knowledge questionnaire regarding prevention of child sexual abuse. Results: Findings of study showed that 50% mothers in pre test were having poor knowledge and 50% were having average knowledge. The majority of mothers in post test were having good knowledge i.e. 80% and 20% had average knowledge . There is no significance association between the level of knowledge scores and socio demographic variables. The result from this study reveals that knowledge regarding prevention of child sexual abuse among mothers were inadequate. Also, the educational programme significantly improved the knowledge of mothers regarding child sexual abuse so other teaching strategies can be used to increase mother’s knowledge regarding prevention of child sexual abuse.

Keywords: Mothers, Child Sexual Abuse, Educational Programme

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187 The role of social media in teaching and learning English language: A study

Paper ID V6I3-1599 · Pages 874-881 · English

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The purpose of this study is to explore how to teach and learn the English language through social media. we live in the new world of technology, and social networking. All most all people like especially students, teachers use various social media tools for multiple purposes. social media technologies to enhance the overall teaching and learning process. It also provides students to access useful information but also stays connected with learning groups and other educational systems that make their overall learning process more interesting and engaging. Through social networks, it is easier and convenient to exchange information, communicate with each other, and stay connected. students use social platforms to stay connected with each other to improve the teaching-learning process. These online buttons help students to find solutions to their problems and improve their language fluency. The present study usually focuses on the role of social media in learning the

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English language. English has become a global language as it is used almost in every field of life like science, business, sports, etc. Pandit Jawaharlal Nehru said that it is a window to the modern world. So learning the English language has become necessary for this generation. The English language should be learned with proper care and concentration. It is an international language, spoken in many countries both as a native and as a second or foreign language. It is taught in schools in almost every country in the world. English as a Lingua Franca or ELF "a common means of communication for speakers of different first languages". It is a way to communicate in English with different first language speakers. It is a language used for communication between groups of people who speak different languages. The English language is spoken by native speakers of English worldwide. English is a foreign language to communicate and usually, it is spoken by the speakers who do not speak the same mother tongue. Because it makes communication a lot easier and understandable. English is also known as the language of business because most of the M.B.A programs and companies require a certain amount of proficiency in English to their employees and that’s the reason their syllabus is taught in the English language. It also makes all the employees improve their language skills in order to communicate in English. The English language is widely used in academics and learning English has become important because it is widely used in various countries in the world. The English language provides many V opportunities for students to enable them to reach their goals and dreams. English language classes provide various resources and materials can also be helpful for students to improve their knowledge and skills to become an effective and efficient communicator. Social media tools include Facebook, Twitter, Whatsapp, Instagram creates new groups where teachers and students can communicate online. Social media also enhances the teaching and learning environment in both students and teachers. Social media, it is easier and convenient to exchange information and stay connected with each other. Teachers and students can use social platforms for academic purposes. All these tools also provide multiple opportunities to improve their teaching and learning process. These platforms provide valuable materials for enriching knowledge. it also provides many benefits for the students that make their learning more interactive and inclusive. Teachers can organize discussions related to their subjects or assignments on social media. But social media helps both teachers and students to remain connected off-campus. Teachers can create an end number of groups in social media through which important information can be accessed by everyone. This is one of the important platforms for sharing ideas. It also provides a purpose for learning in a convenient for students outside the classroom. It also provides multiple opportunities to enhance teaching and learning in students. All educational institutions have realized the capability of social media to improve collaboration and active learning. In social media, teachers should change their role into facilitators rather than the giver of knowledge and promote more group and learning environments. In online teachers also had to be aware of flexibility in teaching and they can solve the problems anytime. students also get an opportunity to engage in online task-based learning discussions. Students also can find the best online teachers who provides useful feedback, advise them for discussion, and encourage them to have critical thinking. Social media tools allow students to overcome their shyness in asking questions outside the classroom and it creates a good rapport between a teacher and the student. Different languages are used in social media to communicate with students and teachers. It also expects the outcomes of social media usage for enhancing the teaching and learning experiences more effectively.

Keywords: Social Media, Facebook, Twitter, Whatsapp, Instagram

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188 A survey on various encryption techniques

Paper ID V6I3-1600 · Pages 882-886 · Computer Science

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Cloud computing and social network change the way of healthcare by providing real-time data sharing in a cost-effective manner. Data sharing in the cloud is a technique that allows users to conveniently access data over the cloud. The data owner outsources their data in the cloud due to construction and the great conveniences provided by cloud services. The data owner is not able to control over their data, because the cloud service provider is a third-party provider. The main crisis with data sharing in the cloud is the privacy and security issues. Various techniques are available to support user privacy and secure data sharing. This paper focuses on various schemes to deal with secure data sharing such as identity-based encryption, proxy Re-encryption, ciphertext-PolicyAttributeBasedEncryptionandattributeBased Encryption.

Keywords: Cloud, data sharing, access control, security, privacy.

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189 Achieving Single Sign-On (SSO) using federated repositories

Paper ID V6I3-1609 · Pages 887-889 · Information Technology

Mallikarjuna Akkinapalli, Independent Researcher

Application Server Agent (ASA) & Trust Association Interceptors(TAI) set up for Single Sign-On. ASA and TAI are critical parts when implementing Single Sign-On in a multiple federated Light Weight Directory Protocol's environments. There needs to be a presence of web agents on the web servers to intercept the web requests and an ASA agent on the Application Servers to intercept the Application Server's requests. Then you enable TAI on your Application Servers to intercept the requests and perform Single Sign-On. We need to understand the request flow to achieve a successful Single Sign-On authentication. The key to achieve SSO is to intercept the user requests and update the HTTP headers with LTPA or other authentication tokens from Application1 to successfully authenticate onto Application2. Single-Sign-On between any two or multiple systems can be achieved in a Federated repository configuration.

Keywords: Single Sign-On, Federated Repositories, LDAP

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190 Women's mental health as a part of health and well-being in women and sustainable development

Paper ID V6I3-1331 · Pages 890-893 · Psychology

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One among' women and sustainable development' goal is health and wellbeing, and also the term health, WHO states health as "a state of complete physical, mental and social wellbeing and not merely the absence of disease or infirmity". Health is one of the highest things people say matters to wellbeing, both physical health

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and psychological state can influence wellbeing. The effect of wellbeing on health is substantial and admires other risk factors more traditionally targeted by public health like a healthy diet. Wellbeing and psychological state are correlated with depression and anxiety, which are related to low levels of wellbeing. Psychological state and wellbeing are independent dimensions; the psychological state is not simply the other of psychological state. We will easily find a someone' with a mental disorder; while discussing women sustainable development in India, there are some programs through health like SARTHI, and PHC to supply proper enhancement and physiological state to those in need, based upon researchers objectives we must always create and supply awareness about the importance of health and women's psychological state among adolescents and every other through the general public health centers, schools, colleges and then, but initially Social workers and sociologists can do their own contributions to the society like build up a correct knowledge and well awareness among their family.

Keywords: Women's Mental Health, Sustainable Development, Health, Wellbeing

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191 Review paper on the behavior of RC structure subjected blast load

Paper ID V6I3-1608 · Pages 894-895 · Civil Engineering

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As we know that nowadays the increase in the number of terrorist attacks especially in the last few years has shown the effect of blast load on buildings is a serious matter that should be taken into consideration in the design process. Although these kinds of attacks are exceptional cases, man-made disasters; blast loads are in fact dynamic loads that need to be carefully calculated just like earthquakes and wind loads. In that I have calculated the blast load manually by using IS code 4991-1968 and the analysis is carried out in multi-storeyed building by using STADD-Pro Software.

Keywords: Blast Load, Dynamic Load, Earthquake & Wind Load, Is 4991-1968, Stadd-Pro

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192 Optimized social media customer support using machine learning with AWS

Paper ID V6I3-1611 · Pages 896-899 · Computer Science Engineering

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The rising popularity of social media communication can be witnessed everywhere. Not only individuals but companies too have noticed the importance of communication via social media and persist. Associations between customers and companies can be seen via social media. Customers might choose to publicize their opinions about a service or product via social media. Twitter is exceptionally used for is such cases. In this paper, we will exhibit how everyday customers are publicizing their items or taking the criticism for their items

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utilizing Web-based social networking systems like Twitter. In this procedure, the framework will consumer messages (tweets) and apply machine learning techniques (SVM, Porter stemming) to analyze the nature of the tweet via sentiment analysis. The results will be shown as tweets regarding positive, negative. We likewise will provide an automated response to the tweet (if found negative) and forward the message contents to the customer care email client for quick analysis and explicit response.

Keywords: Machine Learning, Amazon Web Services, Twitter, Sentiment Analysis, Serverless Computing

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Alternate Medicine Recommendation

Paper ID V6I3-1621 · Pages 900-902 · Informationtechnology

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On the Internet, where the number of choices is overwhelming, there is a need to filter, prioritize and efficiently deliver relevant information to alleviate the problem of information overload, which has created a potential problem for many Internet users. Alternate Medicine System solves this problem by searching through a large volume of medical information to provide users with filters and services. This project explores the different characteristics and potentials of different recommendation techniques in recommendation systems to serve as a compass for research and practice in the field of medical recommendation systems. In this project, we have used a dataset over 100+ medicines from different companies and brands to do recommendation based on the content of medicine and then filter it based on rating and cost-based analysis. Through experimental results, we have found that more than 95% of the medicines have a lower cost based alternative available with a higher rating.

Keywords: Alternate, Medicine, Recommendation

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194 Machine Cloning

Paper ID V6I3-1568 · Pages 903-905 · Information Technology

Mallikarjuna Akkinapalli, Independent Researcher

Middleware systems which integrate with front end and back-end systems in any enterprise solutions play an important role in a monolithic setup of an enterprise. Most of the middleware systems are file or XML based and not RPM packages as Linux or other Operating Systems define. These file and XML based softwares gives us opportunity to Clone a system and build a new one which saves time and money. Many existing tools and solutions in the market right now talk about Operating System cloning but rarely talk about software cloning. We are going to address few such methods and procedures to achieve this.

Keywords: Machine Clone

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195 End to end CI/CD pipeline for Machine Learning

Paper ID V6I3-1581 · Pages 906-913 · Computer Science

Ram Mohan Vadavalasa, IT Professional, Independent Researcher

In every industry machine learning applications are becoming popular, however, compared to traditional software applications the process fo developing, deploying, and continuously improving for machine learning applications is more complex. In industry practice continuous integration, delivery, and deployment enable organizations to release new features in their products frequently. For engineering processes of developing and designing secure pipelines to support continuous practices, how machine learning systems should be architected to gain a deep understanding in the process, and how to capture, improve and report data into different aspects of continuous integration, delivery, and deployment. Without proper pipeline for machine learning it is hard to predict, test, explain, and improve data workflow behavior. Pipelining in machine learning bringing different principles and practices to machine learning applications to work in a proper manner. In the industrial sector consequences of an irregular pipeline can cause financial, resource, and time will get wasted and some times it can indirectly influence companies' personal reputation in the market. This paper discusses the problems experience while building a machine learning pipeline and ultimately describe the framework to implement the problems in the workflow. Methodically reviewing the state of the art of continuous execution to organize approaches and tools, recognize challenges and practices. As a result, the machine learning pipeline reduces the gaps and increases the speed of experimentation in the workflow.

Keywords: Machine Learning

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196 Performance and emission characteristics of a VCR SI engine fueled with ethanol/gasoline blends

Paper ID V6I3-1606 · Pages 914-918 · Thermal Engineering

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Alternative fuels have become a centre of attraction these days due to its capability of reducing the dependency on fossil fuels and harm to the environment. Alcohol such as ethanol is considered as a clean and alternative fuel for SI engines when it is used in blends with gasoline in different fractions to increase oxygen content. In this experimental investigation, ethanol obtained from sugarcane waste was used in fuels prepared by blending it in increasing ratios (5, 10, 15 and 20 vol.%) with oxygen free gasoline. These ethanol/gasoline blended fuels were used to assess the combustion and emission characteristics of a VCR SI engine. Constant speed of 1300 rpm was maintained during the whole experimentation and the compression ratios were varied as 6, 7 and 9 respectively. Results showed that the ethanol - gasoline blends with 20 vol.% presented the highest volumetric efficiency, torque and brake power, whereas, the ethanol - gasoline blends of 5 vol.% presented the lowest volumetric efficiency, torque and brake power among other blends. Gasoline on the other hand showed the lowest volumetric efficiency, torque and brake power among all the test fuels. Also, the CO and UHC emissions were significantly reduced with the increase of ethanol content in the fuel blends, which indicates an efficient combustion. The impacts of compression ratios on the engine were also observed. The lowest values of CO and UHC emissions were observed at the compression ratio of 6 and with E20 blends. Ethanol – gasoline blends comprising 20 vol.% ethanol and 80 vol.% gasoline provided a better performance among all the blends used for the experimentation.

Keywords: Alternative fuels, Blends, Ethanol, Gasoline, VCR engine

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197 Permutation series and combination series

Paper ID V6I3-1617 · Pages 919-921 · Physics

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The Permutation Series and Combination Series will ensure the readers to understand the proper calculation of Permutation and Combination and will also help them to grow their knowledge on the topic. It is a very helpful topic for the students to strengthen their roots in mathematics. The magic that Mathematics has in it will be exposed to the readers to understand their Mathematics thoroughly and will also help them to enlarge their thinking capabilities. Hence, this topic is very interesting as it provides a link between A.P, G.P with Permutation, and Combination. It will help to calculate many selections and others in a very small time.

Keywords: Mathematics, Series, Algebra

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198 **Effectiveness of childbirth education on knowledge and childbirth experience among Primigravida Women: A quasi-experimental study**

Paper ID V6I3-1618 · Pages 922-926 · Nursing

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Introduction: Pregnancy is the term used to describe the period in which a fetus develops inside a woman's womb or uterus. Pregnancy usually lasts about 40 weeks or just over 9 months as measured from the last menstrual period to delivery. The experience of childbirth is always linked with emotional feelings and expectations. Objective: The aim of the study was to assess the effectiveness of childbirth education on knowledge and childbirth experience among primigravida women Methods: A quasi-experimental design was used to assess the effectiveness of childbirth education on knowledge and childbirth experience among primigravida women in Kamla Nehru Hospital, Shimla. In this study Pre-test and Post-test control group design, 50 primigravida women (25 in the experimental group and 25 in the control group), gestational age of 36- 38 weeks. Self Structured knowledge questionnaire to assess the knowledge and childbirth expectancy was measured by using Wijma Delivery expectancy questionnaire (scale-A) before the intervention in both group and childbirth experience was measured by using Wijma delivery experience questionnaire (scale-B) was used for data collection. Data was collected by structure interview schedule and analyzed by using descriptive and inferential statistics. Results- In experimental group pre-test mean±SD knowledge score was (8.60±1.38) and post-test mean±SD knowledge score was (14.12±1.81). The difference between pre-test and post-test mean±SD knowledge score was highly significant p=0.001. In the control group pre-test mean±SD knowledge score was (9.00±1.38) and post-test mean±SD knowledge score was (9.24±1.39). The difference between pre-test and post-test mean knowledge score was statistically non-significant. childbirth expectancy score of the experimental group was found to be (75.00±7.11) and the childbirth expectancy score of the control group was found to be (81.12±3.27). Whereas the childbirth experience score of the experimental group was found to be (60.40±2.87) and childbirth experience score of the control group was found to be (80.68±2.97) which was statistically significant at the level of 0.001. It was concluded that Childbirth education had an impact on knowledge and childbirth experience among primigravida women. Conclusion: The study findings implied that the implementation of childbirth education has an essential role to increase knowledge and improved childbirth experience of primigravida women.

Keywords: Knowledge, Childbirth Education, Primigravida Women

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199 **Redefining the gravity**

Paper ID V6I3-1597 · Pages 936-940 · Physics

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Abstract A falling object does not have weight, but only moving force, a moving object has fixed uniform motion (see proof ahead), it neither accelerates nor retards during falling towards Earth. So every particle on earth has a uniform value of inertia. Every particle on earth tends to move towards the centre of the earth as each particle has a direction towards the centre but as compared to space each and every direction of particles may

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be considered as having single infinite side. These forces indicate us all about earth circumstances and prevailing at its beginning. We will take into consideration the mass of earth before collection coming into existence. The weight which we feel on the surface of the earth is actually a force which tends to move. Objects do not fall due to attraction of earth but due to their own force which we feel as weight. There is no acceleration while falling of an object compared with a 3D Graph of space. The falling path of an object is actually curved. All force of earth has alignment towards a single central point. The force which we feel as weight is responsible for retraction of earth towards the centre but not due to attraction. There is nether attraction between two points on earth nor between any object and earth.

Keywords: Gravity, Attraction, Moving Force, Acceleration

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200 Photocatalytic decolourization of congo red dye from aqueous solution by fungal biomass doped copper oxide nanoparticles

Paper ID V6I3-1578 · Pages 941-943 · Biotechnology

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Dye-containing wastewater discharged from several industrial activities is a serious threat to the water bodies around industrial areas, because these toxic, organic or synthetic, dyes can affect plant life and human life indirectly affecting the ecosystem of the environment. The study was aimed to enhance the capacity of the biosorption process by doping copper oxide on to fungal biomass for dye remediation. The isolated fungal strain is Aspergillus flavus. Copper oxide nanoparticles are synthesized by green synthetic pathway and Coriandrum sativum was utilized as 0.04 M Copper oxide and fungal biomass

Keywords: Biosorption , Dyes, Fungal Biomass, Green Synthetic Pathway

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201 A descriptive study to assess the knowledge and attitude of cervical cancer and its prevention among the married women residing in selected Bhattakuffer area, Shimla, Himachal Pradesh

Paper ID V6I3-1620 · Pages 944-952 · Nursing Research

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Cervical cancer remains a major cause of morbidity and mortality among women worldwide and an issue of significant public health concern. HPV is a necessary cause of cervical cancer, but it is not a sufficient cause. The burden of cervical cancer in India is enormous accounting for about 20 percent of all cancer-related deaths in women and is the number one cause of death in the middle age of Indian women. Objectives of the study were to (1) To assess the knowledge of married women regarding cervical cancer. (2) To assess the attitude of

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married women regarding cervical cancer. (3) To find out the association between attitude and knowledge score related to cervical cancer with their socio-demographic variables. Methods: The descriptive research design was adopted to collect the data from 100 married women residing in the selected community area of Shimla, Himachal Pradesh via using a random sampling technique. The data was collected by a self-structured questionnaire and by using a 5-Point Likert scale. Result: The findings of the study show that about 79% of women were having moderate knowledge who scored (21-31marks) and 11 % were inadequate who scored (11-20marks) and 10% (0-10 marks) of the married women were having adequate knowledge regarding cervical cancer and its prevention. The majority of the married women were having a neutral attitude (71%), and (29%) of the women were having a positive attitude towards cervical cancer and its prevention. cer

Keywords: Cervical cancer, Human Papilloma Virus, Married women

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To investigate potential target based phytochemicals against COX 2 & STAT 3 protein of Squamous Cell Carcinoma of Head & Neck using In-Silico approach

Paper ID V6I3-1627 · Pages 953-957 · Bioinformatics

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Cancer is not just one disease but many diseases affecting the world over. Carcinoma is a type of cancer arise from epithelial cells. Squamous-cell carcinoma of the head and neck (SCCHN) represents a heterogeneous disease entity, with various etiological factors implicated in the genesis of distinct molecular subsets of tumors, which exhibit different biological and clinical behavior. Historically, SCCHN has been about twice as common in men as in women and more frequent in people over 50 with growing incidence reported among younger people. Alcohol and tobacco are common etiologic factors for SCCHN, linked to at least 75% of cases. Systems biology emphasizes the need for molecular characterization of cancer development. Molecular tools are screened as means of candidate biomarkers leading to cancer. Overexpression of proteins causing tumorigenesis is better understood by studying their role in cancer proliferation. COX 2 and STAT3 are pathway-mediated bioagents in head and neck cancer considered as targetable protein. Phytochemicals such as Rutin, Quercetin and Ellagic acid are well-known inhibitors of both COX 2 and STAT3 proteins. In-silico approach was used to analyze binding interactions of phytochemicals against selected protein structures of COX 2 and STAT3 using docking studies thereby forming drug able agents. The main objective is to find an alternative treatment to chemoprevention therapy. This research work aims to carry out systematic review of head and neck cancer in order to develop potential target-based therapy. Therefore, Rutin against 5IKR, 5F19, Quercetin against 6NJS and Ellagic acid against 6QHD may be considered to be potential anti-cancer against SCCHN target which further needs to be explored for drug development process.

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Keywords: Squamous cell carcinoma of head and neck (SCCHN), COX 2, STAT 3, Phytochemicals and its analogues,Molecular docking

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Prevalence of Dysmenorrhea among adolescent girls of Govt. Senior Secondary Schools of District Mandi, H.P.

Paper ID V6I3-1636 · Pages 958-964 · Public Health

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Adolescence is most important stage of human life, particularly in adolescent girls as it lays down the conditions for healthy and safe procreation. Many girls face problems in their menstrual cycle including dysmenorrhea, which has figured less in past research studies. To find out the prevalence of dysmenorrhea among adolescent school girls, to determine the association between the dysmenorrhea and quality of life as well as with other selected variables. A cross-sectional study was conducted on 378 adolescent Senior Secondary School girls of 13-18 years of age, selected through multistage sampling technique using structured pretested questionnaire. The data was computed and analyzed in SPSS 23 version. Results: The prevalence of dysmenorrhea was 65.3%. Most of the students were in the age group of 15-16 years. The mean age of respondents was 15.26±1.293 years while it was 13.41±.682 for menarche. The most common symptoms reported were backache in 66.7% and irritability in 40.7% of the cases. The study found positive association between dysmenorrhea and family history and fruit intake. Dysmenorrhea was also found related with school absenteeism, poor exam grades, poor interpersonal relationship, decreased concentration in class and day-to-day activity. The prevalence of dysmenorrhea among adolescent girls was relatively high. The pain suffered could be severe that affected school absenteeism, social and academic performance and day-to-day activities. Association of dysmenorrhea was found to be significantly associated with age of menarche while it was highly significant with family history and fruits.

Keywords: Dysmenorrhea, Prevalence, Adolescent girls, Quality of life

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204 A correlational and comparative study of perceived stress, intolerance of uncertainty and resilience among students and working individuals during the COVID-19 Pandemic

Paper ID V6I3-1656 · Pages 965-971 · Psychology

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Shruti Kate, Independent Researcher
Shreya Shitole, Independent Researcher
Shachi Kashikar, Independent Researcher
Pranita Date, Independent Researcher

This study is aimed at investigating the correlation and comparison of perceived stress, intolerance of uncertainty and resilience among students as well as working individuals. The two main objectives of the research are to see if these three variables correlate with each other significantly; as well as to see the if there is a difference in the perception of intolerance of uncertainty, perceived stress and resilience between students and working individuals. The total sample consisted of 373 individuals falling between 18-40 years of age. Methodology consisted of snowball and purposive sampling. Descriptive, correlational and comparative research designs were used. Standardized tools of Perceived Stress Scale, Resilience Scale-14 and Intolerance of Uncertainty Scale were used for data collection in order to assess perceived stress, intolerance of uncertainty and resilience. The parametric measure of Pearson product moment correlation, independent sample t-test as well as regression were used for data analysis. The results revealed a significant positive correlation between intolerance of uncertainty and perceived stress and a significantly negative correlation between resilience and intolerance of uncertainty and resilience and perceived stress (significant at 0.01 level). There is also a significant difference between perceived stress and resilience of the students and working individuals (significant at 0.05 level).

Keywords: Perceived stress, Intolerance of uncertainty, Resilience, Students, Working

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205 ICT Model (e-Kapas Network) for Dissemination of Cotton Agro-Advisory for Vidharbha region

Paper ID V6I3-1647 · Pages 972-977 · Agriculture Ict Model

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Information and communication technology in agriculture (ICT in agriculture), also known as e-agriculture, focuses on the enhancement of agricultural and rural development through improved information and communication processes. Mobile Phone has emerged the scenario of communication. It is a fast and reliable source of communication for dissemination of Information related to new innovation or alter for upcoming calamities. Recent year the mobiles are becoming affordable and useful tool for farming community. Poor

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accesses to agricultural information are the major constraints in the growth of agricultural productivity in India. In this context e-Kapas Network Project under Technical Mission on cotton (TMC MM-1.6) ensures the availability of right information at right time at the doorstep of clients. ICAR-Central Institute for Cotton Research, Nagpur has introduced the novel extension mechanisms e-Kapas Network project nationally since April 2012. The AICCIP center of Dr. Panjabrao Deshmukh Krishi Vidyapeeth, Akola was also one of participating center of this project with specific assignments to be completed in the various stages. These ICT Model were succeeded as the opportunities to the cotton growers to get relevant, location specific, timely agro-advisory services along with powerful platform for cotton scientists deliver appropriate cotton technologies to farmers to improve the efficiency of current manual system by saving time, money and making technologies available 'anywhere & anytime' to users. AICCIP, Akola under Dr. PDKV, Akola center has actively registered their participation by registering about 15,930 farmers from Vidharbha region along with document with fifty two FAQs and developed the script for documentary on rainfed cotton cultivation. The favorable attitude of farmers towards ICT as an effective and efficient information support tool would lead to stronger conviction and efficient extension programme planning in changing agri-rural environment.

Keywords: ICT, E-Kapas, Agro-advisory, Cotton growers, Voice mails and Vidarbha

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Features of OS2200 System

Paper ID V6I3-1607 · Pages 978-983 · Computer Science

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Clear Path OS 2200 is the complete, premier operating environment for Clear Path Forward Dorado systems. The OS 2200 operating system sits at the environment's core, delivering the unmatched security, robust scalability, availability, data integrity, and ultra-high-volume transaction processing capabilities core business applications and digital business processes demand. These applications are run by transaction managers and application servers designed especially for and tightly integrated with the OS 2200 environment, enabling them to manage exceedingly high transaction volumes with ease.

Keywords: Clearpath, OS 2200, Demand mode, Batch processing

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Students perception towards continuous and comprehensive evaluation in Erode district with reference to selected variables

Paper ID V6I3-1650 · Pages 984-988 · Education

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The strength and success of an educational system depend on a sound examination system which is necessary to determine the effectiveness of the dissemination of knowledge by teachers and its assimilation by students. This is an attempt to know the perception of upper primary students towards Continuous and Comprehensive Evaluation in Erode district with respect to their selected variables such as sex, school type and medium of

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instruction. Student's perception of CCE tool consists of Sixty six items was constructed by the investigator and the survey method was employed. Considering the hypotheses of the study, Correlation, descriptive and differential analysis 't' and ANOVA were employed. The major findings of the study revealed that there is a significant means score difference in the perception of upper primary students towards CCE with respect to their Gender and Medium of Instruction. Keywords: Perception, upper primary students, Continuous and Comprehensive Evaluation

Keywords: Perception, Upper Primary Students, Continuous and Comprehensive Evaluation

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208 **Marker-assisted selection in American cotton genotypes using biochemical and molecular profiling techniques**

Paper ID V6I3-1612 · Pages 989-993 · Molecular Breeding

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Biochemical and molecular markers have proven to be powerful tools for discerning bio-systematic, bio-geographic, and phylogenetic relationships. Bio-systematic information can be important for guiding traditional breeding programs, gene transfer, interspecific hybridization, and gene conservation. Polymorphism is a result of variation in the genome of an individual plant or animal organism. The present investigation of an experiment is conducted to explore the magnitude of polymorphism in cotton genotypes using biochemical and molecular marker techniques. In the present investigation, the cotton lines exhibited polymorphism is analyzed based on the relative mobility of bands. The relative mobility (Rm) values ranged higher in protein banding pattern followed by carboxylase esterases, peroxidases, and polyphenol oxidase activity studied by SDS-PAGE and PAGE electrophoresis techniques. In respect of the molecular investigation using RAPD, the primers used exhibited satisfactory amplification essential for discriminating the population. The most amplified primers exhibited an average polymorphism of about 73 percent. The biochemical and molecular marker techniques are found to be quicker for the screening of a large gene pool and clustering the genotypes into different diverse clusters which are useful to select the parents for hybridization. These techniques can assist plant botanists especially involved in plant breeding activities to speed up the conventional cotton improvement program. Further, it can be concluded that the biochemical and molecular markers investigated in the present experiment are adequate to judge the dissimilarity among the genotypes for speeding up the selection of parents with assumption that the banding profile is a measure of discrimination.

Keywords: MAS, SDS-PAGE, Molecular Markers, Biochemical Markers, Cotton

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209 Development of protein rich traditional snack

Paper ID V6I3-1642 · Pages 994-997 · Nutraceuticals

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Several research papers have reported health benefits of Eleusine coracana (Finger Millet), Cicer arietinum (Chickpea), Foeniculum vulgare (Fennel Seeds) and Cuminum cyminum (Cumin Seeds). Although there is increase in consumer demand for healthy products, this snack belong to traditional category of snacks is modified to provide daily required protein and fiber to the consumer. The product is inspired from the famous “Bhakarwadi” snack which is consumed highly in central parts of India and it’s demand have taken the product overseas. A combination of Finger millet flour and Chickpea flour provides with good amount of dietary fiber and protein and contains no gluten. The safety and quality of the product was determined on the basis of physio-chemical characterization such as Moisture Content (7.39%), Ash Content (3.03%), Total fats (16.15%), Proteins (17.8 grams), Carbohydrates (53.86 grams), Crude fiber (2.43%), Total phenol's (65 mg/100g GAE), along with organoleptic analysis.

Keywords: Bhakarwadi, Protein rich, Gluten free, Sprouts, Finger millet, Nutritional profile

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210 A survey on water quality monitoring system using IoT and Blockchain

Paper ID V6I3-1655 · Pages 998-1002 · Iot And Blockchain

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From the last few years water pollution has become an increasing problem across the world. Water is a one of the primary resource for all living organism. The objective of this system is to provide real-time monitoring of the water quality. For this we use some physical and chemical parameters like pH, turbidity, salinity and temperature etc., to find the quality of water. To collect values from these parameters an IoT model is used. Then these values are sent into the cloud. To avoid the alteration of these collected data in cloud, Blockchain technology is used. Using internet the CPCB water department can access these data through an application developed.

Keywords: IoT, pH sensor, Temperature sensor, Turbidity sensor, Salinity sensor

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211 Determine the quality of sleep among hemodialysis patient

Paper ID V6I3-1648 · Pages 1003-1005 · Medicine

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People have physical, social, evangelical, what is additional, learned wants. Physical and mental well-being depends upon adequately meeting these basic wants. Sleep could be a basic physical want. though sleep capacities square measure most not at all clearly understood, it's acknowledged that sleep is crucial for maintaining well-being and a condition of well-being. Hemodialysis patients often expertise issues sleeping. The aim of this study was to work out sleep quality in dialysis patients. 120 patients samples were used for these study. it absolutely was determined that everyone the dialysis patients complained of sleep problems; most (78.7%) reportable poor sleep quality; because the patients age and time on qualitative analysis magnified, their sleep quality shrivelled .The study finished that everyone the dialysis patients complained of sleep issues which most had poor quality of sleep.

Keywords: Hemodialysis, Sleep, Patients

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212 Rainfall prediction – A deep learning approach

Paper ID V6I3-1652 · Pages 1006-1010 · Computer Science Engineering

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Previous work has shown that the prediction of meteorological conditions through methods based on artificial intelligence can get satisfactory results. Forecasts of meteorological time series can help decision-making processes carried out by organizations responsible of disaster prevention. We introduce an architecture based on Deep Learning for the prediction of the accumulated daily precipitation for the next day. More specifically, it includes an autoencoder for reducing and capturing non-linear relationships between attributes, and a multilayer perceptron for the prediction task. This architecture is compared with other previous proposals and it demonstrates an improvement on the ability to predict the accumulated daily precipitation for the next day.

Keywords: Deep Learning, Autoencoder, Multilayer Perceptron

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213 A comparative study of resilience, life satisfaction and adjustment amongst parents living with their married children and parents living alone in Pune City

Paper ID V6I3-1657 · Pages 1011-1018 · Psychology

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This study aimed at investigating the comparison between resilience, life satisfaction and adjustment amongst parents living with their married children and parents living alone. The total sample of 100 consisted of 50 from both the groups. Standardized tools such as Resilience scale, life satisfaction scale & adjustment inventory were used for data collection. Parametric measure of Independent samples t-test was used to analyse the data. The results revealed a significant difference between parents living with children and parents living alone on Resilience, Life satisfaction and Adjustment in day to day life.

Keywords: Resilience, Life Satisfaction, Adjustment, Parents

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214 Developing a business plan for new entrepreneurs with MS PowerPoint

Paper ID V6I3-1638 · Pages 1019-1028 · Business

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The world economy is at its lowest. In this current situation, designing a business plan and convincing the investors to believe in new ventures of the new entrepreneurs is important. In this paper, we have discussed the importance of a business plan along with key aspects for developing a business plan and how to present it to the investors. After winning the best business plan award in the international BAJA SAE sales presentation under the banner of Team Saksham International, VIT Chennai, for consecutively 2 years, we have come up with certain points about a business plan which can charm investors of any place or country to invest in the company. This paper contains detailed information and guidance on developing an efficient business plan with a VARS model for any kind of business along with pitching skills which will help you to make your business a success. Via this paper, we are also sharing certain MS PowerPoint presentation skills which will enhance your proposal and leave an impact on your investor’s mind.

Keywords: MS Powerpoint, BAJA SAE, Icons, Animations, Adobe Photoshop, ROI, USP, Demand curve, NPS

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215 The forgotten gem

Paper ID V6I3-1658 · Pages 1029-1034 · Architecture

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In the growing concern of awareness regarding Sustainable building materials and environmental issues related to them, Compressed Stabilized Earth Bricks (CSEB) is the environmental friendly building and sustainable material we can rely on. Earth as a building material is already known for centuries .It turns out that Compressed Stabilized Earth Bricks properties can be easily compared with the properties of concrete blocks and normal fired bricks. Selection of materials during the design plan leads towards more sustainable construction. This paper reviews some advantages of eco friendly materials such as Compressed Stabilized

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Earth Brick over other economic and technological benefits.

Keywords: Compressed, Stabilized, Earth Material, Sustainable, Concrete Blocks, Fired Bricks

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216 High purity germanium detector radioactivity monitoring for defected fuel detection in Indian Pressurized Heavy Water Nuclear Reactors

Paper ID V6I3-1586 · Pages 1035-1038 · Electronics And Nuclear Engineering

Sushant Tiwari, Nuclear Power Corporation of India Limited (NPCIL), Mumbai, Maharashtra

Operation of Nuclear Reactor with defected fuel can result in excessive radioactive contamination which makes maintenance work around the heat transport equipments, piping and tubing very difficult. Besides, increased release of fission products, in turn, increases the radioactivity levels in various areas of Reactor Building and also the radioactivity discharged to the environment which can affect people and disrupt safety. Presently in the Indian Pressurized Heavy Water Reactors (PHWRs), the presence of failed fuel in the core is detected by offline measurements of I-131 activity in the heat transport system and Delayed Neutron Monitoring System. These systems have limitations of being sample based systems which continuously cannot monitor the increase in radioactivity due to fuel failure. High purity germanium detector monitoring is proposed by me as an introduction of continuous monitoring of fission product activity which will increase the efficacy of the Nuclear Reactors in detection of defected fuel thereby increasing the safety of the plant.

Keywords: High purity germanium detector, radioactivity, contamination, delayed neutrons and Nuclear Reactors

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217 Air traffic Control of US domestic flights

Paper ID V6I3-1516 · Pages 1039-1043 · Information Technology

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With the increase in data and especially air traffic data, it is increasingly becoming difficult to handle the same. It is important not just to handle the data to get the necessary output, but also to maintain the integrity of the data. Hadoop is a framework that we have used as it provides reliable services for the data in concern. MapReduce can be used to provide apt management of a large amounts of data and it can be used as a filter to generate useful insights. Machine Learning on the other hand is used for the recommendation portion of the project. Machine Learning helps in identifying the patterns in the data which might not be visible to the naked eye. It then is used to make useful predictions and correct recommendations based on the data in consideration.

Keywords: Air Traffic Control (ATC), Air Traffic Management (ATM), Hadoop, Hadoop Distributed File System (HDFS)

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218 Design of low power and high-performance Carry Save Adder and Ripple Carry Adder using pass transistor logic

Paper ID V6I3-1567 · Pages 1044-1047 · Vlsi

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Adders are the central structure square of any processor or data way application. For the arrangement of prevalent getting ready units quick adders with low power use is required. To structure viable joined circuits the extent that zone, power additionally, speed has become a troublesome endeavor in present day VLSI design field. In this paper the power and delay modified pass on save snake is differentiated and the standard Carry Save Adder (CSA) and the Domino method of reasoning based CSA.And moreover theproposed justification CSA is thought about and the Ripple Carry Adder and Carry Bypass Adder. The proposed arrangement is endorsed by execution of 4 piece Carry Save Adder in a standard 90nm CMOS advancement. This circuits is executed using DSCH Tool, Microwind Tool.

Keywords: Carry Save Adder, Ripple Carry Adder, Carry Bypass Adder, Dynamic Logic, Delay and power consumption

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219 Marketing innovations: Opportunity and challenges- A study on Haveri city

Paper ID V6I3-1577 · Pages 1048-1052 · Market

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The importance of innovation in the current business strategy modern day’s technology is one of the most powerful weapons to a successful company. This marketing innovation construct and its associated strategic activities are clearly distinguished from product and process innovation, better-enabling researchers and practitioners to identify new and updated paths from innovation to firm performance. Marketing innovation and technology is one of the factor surveys along with rival competitors and along with long term substance in the market. Technology is helping to increase produces qualities product and easy to distributes. Innovation and technology will provide customer loyalty and reach the target group. The innovation has been executed in many companies and they are running their business successfully. They are Nestle, windows operator, and various cell phones, etc. To conclude if you’re trying to enhance your marketing activity or create new things or new development products hence, this paper attempts to find the opportunities and challenges to the organization and innovations products under the study area.

Keywords: Marketing Innovation, Innovation, Awareness, Organization

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220 Assessment of self-efficacy beliefs and academic performance for sources and implications in high and low achieving secondary schools in Mbarara district, Uganda

Paper ID V6I3-1613 · Pages 1053-1057 · Educational Psychology

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The major purpose of the study was to assess the relationship between self-efficacy beliefs and academic performance between high and low achieving secondary schools in Mbarara District. The study also explored the sources related to the academic gap that informed implications towards narrowing the academic gap between high and low achieving secondary schools. The study was mainly quantitative and used the sequential explanatory paradigm. Questionnaires were used to gather data from three hundred participants. Interview responses were analyzed to supplement the information collected through the questionnaire. Data were analyzed using the computer package known as Statistical Package for the Social Sciences version 20. The findings of the study showed that there are very weak negative correlations between self-efficacy beliefs and academic performance in low achieving secondary schools r (148)= -.163, p=.047) while high achieving has weak corrections r (148)= -0.203, p=.013) which is significant. The study, therefore, recommends that students could be encouraged to practice adherence to moral self-sanctions while teachers evaluate and consult on performance so that students gain confidence and assurance to achieve academic success. Furthermore, the findings of the study have sources for differences in principal passes that effect inequitable admission to public universities. Also, the findings informed implications towards narrowing the academic performance gap between high and low achieving secondary schools.

Keywords: Assessment, Self-Efficacy Beliefs, Academic Performance, Sources, Implications, Achieving

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221 Study of the relationship between humour, stress and psychological well-being in young adults

Paper ID V6I3-1653 · Pages 1058-1063 · Psychology

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This study is titled as “Relationship between humour, stress and psychological well-being in young adults.” The objective is to study the relationship between humour and stress, humour and psychological well-being and stress and psychological well-being among young adults in Pune city. The total sample of 139 consisted of college students who are currently enrolled in a professional or a traditional course. The methodology consisted of purposive sampling. Standardized tools of Multidimensional Sense of Humour Scale, Perceived Stress Scale and Scales of Psychological Well-being were used for data collection in order to assess humour, stress and psychological well-being respectively. The Parametric measure of Pearson product-moment correlation was used to analyse the data, followed by regression. The results revealed a significant positive correlation between Humour and Psychological Well-being (significant at 0.01 level), and a significant negative correlation between Stress and Psychological Well-being (significant at 0.01 level). The implications could be that adaptation of

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humour in teaching methods will create a relaxing environment. This can facilitate student participation, concentration, attention, as well as can strengthen and increase social interaction.

Keywords: Humour, Stress, Psychological well-being, Students

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222 The thrust generated by DIY Ion Thruster

Paper ID V6I3-1671 · Pages 1064-1068 · Physics

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Nowadays, Electronic propulsion is the most used technology for controlling the precise motion of the satellites or explorers. As a Physics enthusiast, I wanted to experiment with the Electronic propulsion engine and calculate the thrust generated with the small electronic propulsion engine at atmospheric conditions near sea level. In this experiment, we made a small setup of ion thruster, which can generate very small thrust; we also tried to explain the mathematical model of the thrusts of such designs.

Keywords: Ion Thruster, DIY Ion Thruster, Mathematical Model of DIY Ion Thruster

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223 Effect of Hydroxy (HHO) gas addition on the air-fuel ratio, mileage and fuel consumption of a motorbike equipped with 4 stroke SI engine through theoretical calculations

Paper ID V6I3-1595 · Pages 1069-1075 · Mechanical Engineering

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This research aims to compare the mileage and fuel consumption of a BAJAJ Pulsar 150 equipped with a 4 stroke SI Engine with and without the assistance of Hydroxy (HHO) gas through theoretical calculations and derive suitable conclusions. HHO gas consists or Hydrogen (H2) and Oxygen (O2) which are liberated during water electrolysis. The hydrogen gas produced by electrolysis of water is injected through a small opening in the engine intake manifold while the carburettor, fuel pipeline, and engine cylinder being unaltered. Topics from elementary Chemistry, Engineering Thermodynamics and IC Engines were used in the calculations. The specifications of SI Engine used in the Bajaj Pulsar 150 were also taken into account. The following results were obtained from the calculations when the engine was run with the aid of HHO gas: (a) 4.54% increase in mileage of the bike when operating the engine under maximum power condition. (b) 4.71% increase in mileage of the bike when operating the engine under maximum torque condition. (c) 74.2% decrease in fuel consumption, (d) No change in Air-Fuel(A/F) ratio

Keywords: HHO, SI Engine, Mileage, Fuel Consumption, Air-Fuel Ratio, Electrolysis

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224 Modelling and structural analysis of double bubble fuselage for optimal payload capacity

Paper ID V6I3-1629 · Pages 1076-1082 · Aeronautical Engineering

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This paper describes the model III Modelling and Analysis of the Double Bubble (DB) fuselage at different pressure loads condition. The computer analysis includes the computation of circumferential stress, total deformation, maximum stresses. The advantage of DB fuselage is to increase the payload carrying capacity and contributes towards the increase of lift. The modelling of the fuselage has been carried out with different configurations so as to minimize the total deformation. There is the research compulsion to modify the existing fuselage geometry to accommodate more number of passengers with less cost. This project optimizes the design using SOLIDWORKS latest version. The in-depth analysis have been carried using ANSYS R18.1 version. Three models has been created and compared for optimized characteristic parameters. This project fulfills the gap between the passengers comfort and airlines economy. The computations of three models give a converging results. Model III has almost elliptical geometry which obtained by the DB concept and it has the least computational result values. The model III provides more seating space for the passengers.

Keywords: Double Bubble Fuselage, Blend Wing Body, Semi-Monocoque, Stressed Skin, Structural analysis, Optimization; Simulation

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225 Development and shelf-life studies of pea enriched gluten free cookies

Paper ID V6I3-1675 · Pages 1083-1089 · Food Science And Technology

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Millets are gluten free and excellent for celiac disease patients. An attempt was made to develop pea incorporated millet cookies. The developed cookies were analyzed for physical parameters like weight, thickness, and diameter, spread ratio, percent spread and bulk density. The cookies were analyzed for proximate composition, mineral content, anti-nutrients and anti-oxidants. The products were packed in polyethylene pouches and stored at ambient temperature for 4months and analyzed for microbial and consumer acceptability. On storage there was increase in the moisture content of the samples from 4.65% to 6.25% and decrement in anti-nutrient and anti-oxidant content. Addition of 30% pea flour to composite flour was found acceptable by considering the overall quality of the developed cookies and the economic aspect

Keywords: Pea, Gluten Free, Anti- Nutrients, Millets

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226 Study of the toxicity of two pharmaceuticals on invertebrate Hydra Vulgaris and observing effects on morphology and physiology

Paper ID V6I3-1661 · Pages 1090-1100 · Zoology

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The Cnidarian Hydra has been extensively used as a model organism studying the teratogenic and toxic potential of numerous toxins throughout the years and are more recently growing in popularity to assess the impacts of environmental pollutants. Hydra is an appropriate bioindicator species for use in environmental assessment owing to their easily measurable physical (morphology), biochemical (xenobiotic biotransformation; oxidative stress), behavioural (feeding) and reproductive (sexual and asexual) endpoints. Pharmaceuticals enter natural waters through sewage effluent and landfills and present an unknown risk to aquatic species including freshwater invertebrates. The cnidarian Hydra has been widely used to assess the acute toxicity of freshwater pollutants, but very little is known about pollutant accumulation by this animal. This study was conducted to study the effect of commonly used drugs, Paracetamol and Acetylsalicylic acid (Aspirin) on the morphological and physiological working of Hydra Vulgaris. The Hydra was exposed to 4 different concentrations of each drug for 24 hours and then observed for morphological and physiological changes.

Keywords: H. Vulgaris, Paracetamol, Aspirin, Wastewater, Toxicity.

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227 Heuristics and Meta-Heuristics optimization methods in solving Traveling Salesman Problem TSP

Paper ID V6I3-1427 · Pages 1101-1111 · Computer Science

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In modern societies there are increasingly more often problems of various kinds, and tests are needed to solve them in experimental ways. Although, Develop a mathematical model that closely matches the reality to solve a real life problem is very complicated, since many of these models might has to contain very large number of variables (as a heuristic model that optimizes problems solving results). Furthermore, these shows as difficult problems in controlling subjective behaviours, so They are making it even more complicated than these models resemble reality (wrong solving model leads to a more complex level). The purpose of this research is the study of combinatorial optimization problems using approximate methods. In particular, this work focuses on the analysis of meta-heuristics algorithms based on history and population related to the solution of Travelling Salesman Problem (TSP) like Particle Swarm Optimization (PSO), Ant Colony Optimization (ACO), Simulated Annealing (SA) and many others, as well as hybrids, which allow efficiently to solve generic problems.

Keywords: PSO, ACO, TSP, Meta-heuristics, NP-Hard

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228 A review on Bacteriophages: Our saviour and weapon for post-antibiotic world

Paper ID V6I3-1649 · Pages 1112-1120 · Biotechnology

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The rate of Emergence of antibiotic-resistant bacteria has become exponential in recent times due to the irrational exploitation of antibiotics. If this trend continues, the world and human civilization as we know it would be pushed back to the dark pre-antibiotic age. Bacteriophages could hold the key to abate the antibiotic crisis. Bacteriophages are the viruses that specifically infect and kill prokaryotic bacteria sparing human eukaryotic cells and also has a limited effect on the human microbiome this dogma makes them suitable candidates to replace antibiotics in the near future. Bacteriophages, by using a novel mechanism than the conventional antibiotics would empower us to treat drug-resistant bacterial infections, they can also be used along with antibiotics to give a maximum effect to terminate bacterial infections. Phage therapy was already in use before the discovery of antibiotics however, discovery and development of antibiotics dampened their progress in modern therapeutics. In the current scenario, it seems vital to reinvent and reestablish phage therapy and employ them to treat infections by superbugs. Plenty of groundbreaking research has been done in the past few years regarding the usage of phages in modern therapeutics. Bacteriophages, if studied properly, has the potential to supplement or even substitute antibiotics. This review will provide information on the lytic mechanism of phages, summaries of successful research done by using phage therapy against bacteria in the animal model, and current human trials along with synergism between antibiotics and phages. Some of the key aspects of synthetic or bioengineered phages and their uses are also incorporated. Finally, a discussion on solutions for carving a path for the successful employment of phage therapy in the future is inserted.

Keywords: Bacteriophage, Phage, Phage Therapy, Antibiotic Resistance, Multiple Drug Resistance, Lysin, Synthetic Phage.

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229 Indian Diaspora

Paper ID V6I3-1667 · Pages 1121-1123 · English Literature

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It is globally accepted fact that Diasporic writers set a trend since the Independence. Indian Diaspora occupies the second largest place in the world. The population of Diaspora is approximately 25 million, who settled in the whole notable regions of the world. Diasporic literature irrespective of languages, style, literary form and technique attract the readers crossing the borders. It may be stream of consciousness or magic realism or immigrancy of a new land and culture. But nostalgia is all Diaspora writers. It is an Interesting Paradox that a great deal of Indian writing in English is produced not in India but in widely distributed geographical areas.

Keywords: Literature, Indian Diasporic writers – Salman Rishdie, Amitav Ghosh, Anita Desai, Raja Rao, Kiran Desai, Rohinton Mistry etc.

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230 Development and validation of UV-spectrophotometric methods for simultaneous estimation of chlorzoxazone and tramadol in laboratory mixture

Paper ID V6I3-1678 · Pages 1124-1128 · Pharmacy

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The present manuscript describes a simple, sensitive, rapid, accurate, precise, and economical Simultaneous equation method and first-order derivative spectrophotometry method for the simultaneous determination of Chlorzoxazone and Tramadol in laboratory mixture. The absorbance values at 243.3 nm and 271 nm for the simultaneous equation method and 236.6nm and 213.3nm for the first derivative spectrum were used for the estimation of Chlorzoxazone and Tramadol. This method obeyed beer's law in the concentration range of 2-10 µg/ml for Chlorzoxazone and 10-100 µg/ml for Tramadol. The solvents used for UV-Spectrophotometric methods was 0.1 N NaOH. The % RSD of accuracy was found to be 0.2086 for Chlorzoxazone and 0.4717 for Tramadol. The method was successfully applied to the laboratory prepared mixture because no interference from the mixture excipients was found. The suitability of this method for the quantitative determination of Chlorzoxazone and Tramadol was proved by validation. The results of analysis have been validated statistically and by recovery studies.

Keywords: Chlorzoxazone, Tramadol, UV-Spectrophotometry

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231 A cross-sectional observational study on adverse drug reactions of anti-depressant drugs and compliance in the psychiatry outpatient department at Tertiary Care Hospital, Mumbai

Paper ID V6I3-1668 · Pages 1129-1136 · Psychiatric Research

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Background: Adverse drug reaction is now seen as one of the major reasons for mortality and morbidity in the world. Moreover, these ADRs are under-reported and underestimated. Thus, the Pharmacovigilance program has been started to reduce the risk of ADR and the safety of drugs. Depression is the most common disorder affecting people of all ages, sex, socio-economic group and religion all over the world; it may range from a very mild condition, bordering on normality, to severe (psychotic) depression. This study may reveal the common drugs which may induce ADR's so that preventive care can be taken. Therefore the present study is planned to monitor, detect and analyze the adverse drug reactions of anti-depressant drugs in the Psychiatric Department. Aim and Objectives: Aim-To detects and analyze adverse drug reactions in patients with Depression and study patient's compliance in tertiary care hospitals. Objectives: Primary objective- To detect the types of ADRs induced by anti-depressant drugs and also estimate its incidence rate. Secondary objective- To assess the causality & probability of ADRs, To assess the severity of patients with respect to ADRs, To study the patient's compliance towards anti-depressant drugs. Methodology: Approval of Institutional ethics committee was taken prior to the initiation of the study. Enrolment of the patient was done as per inclusion and exclusion criteria.

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Only follow up patients were considered for our study to observe ADRs with the help of prescription copy. The hospital medical case record form of the patient was studied for the demographics, clinical history, clinical findings, diagnostic results and undergoing treatment and compliance. After total data collection from all patients, the ADRs were analyzed. Result: A total of 200 patients were enrolled in our study. Males were 44% while females were 56%. 49 patients between 31 to 40 years, which was mostly found in this age group. Among all ADRs seen weight gain 4%, insomnia 19%, tremors 9.5%, fatiguability 0.5%, nausea 3.5%, sedation 2%, rash 3.5%, and other 4%. Further, the causality of ADRs was observed respectively by using the WHO-causality assessment scale. In which about 54.5% cases of ADR seen to be possible, while 31.8% were unlikely and 13% of ADR were conditional ADR. Naranjo's probability scale showed 69.6% of probable ADR while 30.3% of doubtful ADR. 82% of patients adhering to medication was measured by medication adherence rating scale while 18% were not adhering medication properly. Conclusion: Depression was seen mostly among people ranging from 31-40 years of age. Females were most affected by depression than the males. Among all the patients, Insomnia was mostly observed ADR in the patients. Other ADRs seen in patients were tremors, fatiguability, rash, weight gain, etc. Only possible and unlikely ADRs were found. Most of the patients were adhering to medication.

Keywords: Depression, Anti-depressants, Adverse Drug Reaction and Compliance.

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232 Survey of machine learning methods for spam e-mail classification

Paper ID V6I3-1672 · Pages 1137-1143 · Computer Science Engineering

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The humongous volume of unsolicited bulk e-mail (spam) which is further increasing, is the major cause for developing anti-spam protection filters. Machine learning provides a very optimized approach to automatically filter spams at a very successful rate. Here, in this paper, we survey some of the most popular machine learning algorithms (Naïve Bayes, k-NN, SVMs and ANN) and their applicability to the problem of spam e-mail classification. Descriptions of the algorithms are presented, and the comparison of their performance on the UCI spam base dataset is presented.

Keywords: Spam, E-mail Classification, Machine Learning Algorithms, k-NN, SVM, Naïve Bayes, ANN

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233 Screening COVID-19 cases using Deep Neural Networks with X-ray images

Paper ID V6I3-1626 · Pages 1144-1156 · Deep Learning

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The novel coronavirus 2019 (COVID-2019), which first appeared in Wuhan city of China in December 2019, spread rapidly around the world and became a pandemic. It has caused a devastating effect on both daily lives, public health, and the global economy. It is critical to detect the positive cases as early as possible so as to

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prevent the further spread of this epidemic and to quickly treat affected patients. The need for auxiliary diagnostic tools has increased as there are no accurate automated toolkits available. Recent findings obtained using radiology imaging techniques suggest that such images contain salient information about the COVID-19 virus. Application of advanced artificial intelligence (AI) techniques coupled with radiological imaging can be helpful for the accurate detection of this disease, and can also be assistive to overcome the problem of a lack of specialized physicians in remote villages. In this study, a new model for automatic COVID-19 detection using raw chest X-ray images is presented. The proposed model is developed to provide accurate diagnostics for binary classification (COVID vs. No-Findings) and multiclass classification (COVID vs. No-Findings vs. Pneumonia). My model produced a classification accuracy of 98.08% for binary classes and 87.02% for multi-class cases. The DarkNet model was used in my study as a classifier for the you only look once (YOLO) real time object detection system. I implemented 17 convolutional layers and introduced different filtering on each layer. My model can be employed to assist radiologists in validating their initial screening, and can also be employed via cloud to immediately screen patients. With the ever increasing demand for screening millions of prospective “novel coronavirus” or COVID-19 cases, and due to the emergence of high false negatives in the commonly used PCR tests, the necessity for probing an alternative simple screening mechanism of COVID-19 using radiological images (like chest X-Rays) assumes importance. In this scenario, machine learning (ML) and deep learning (DL) offer fast, automated, effective strategies to detect abnormalities and extract key features of the altered lung parenchyma, which may be related to specific signatures of the COVID-19 virus. However, the available COVID-19 datasets are inadequate to train deep neural networks. Therefore, I propose a new concept called domain extension transfer learning (DETL).

Keywords: Coronavirus (COVID-19), Deep learning, Chest X-ray Images, Radiology Images

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234 Gender Neutrality in Public Spaces

Paper ID V6I3-1510 · Pages 1157-1165 · Architecture

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Public spaces are highly defined by gender conceptions and traditional power structures. How we engage with public spaces changes intensively depending on our gender. The ideas of space and gender are intrinsically connected. This issue leads to a strong division of the public sphere. While men tend to prefer function and comfort, women lean towards appearance and comfort. The common factor is comfort and that's the key to making a gender-neutral space where there is no feeling of dominance. Moreover, it also leads to discriminatory behaviors towards minority gender. This article describes the requirement to consider the issue of gender in the common spaces to progressively conceive the public sphere following the changing society we live in. By properly understanding the preferences of the vast spectrum of genders we can begin to achieve a more neutral and less of a gender bias environment that encourages equality. Analyzing the problems faced by different genders in a public space through online surveys and interviews with renowned architects will help us

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formulate the best-required solutions that would help eradicate gender misconceptions while designing a public space. Avenues for future research are identified to explore gendered practices that hinder the development of women and the LGBTQ community in the society.

Keywords: Gender-Neutral, Design, Safety, Architecture, Design Elements

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