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SPECTRUM

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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 5 (September-October, 2020). This edition brings together 126 papers by 238 authors from 114 institutions. Each entry links to the abstract and the full paper.

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ABSTRACTS

1 Natural materials used for an eco-friendly interiors-jute crafts

Paper ID V6I5-1136 · Pages 1-2 · Architecture

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India has large resources of natural fibers such as Banana, Sisal, Korai grass, Talipot, Palm leaf, Coconut, Pineapple, Golden grass, Jute, and Sabai among others. In the past, trade of the village folK depended on harvesting fibers grown in their villages. They spun or twisted yarn into ropes and sold them in villages or town markets. However with time, the emphasis was shifted to cotton and then during the post-independent era, silk and -jute became the new wonder fibers. jute is long, soft, and shiny it is one of nature's strongest vegetable fibers. The fibers are also woven into curtains, chair coverings, carpets, area rugs, hessian cloth, and backing for linoleum. The main objective is to make jute fiber from natural materials. To make jute roped room dividers, doors, and windows with supporting cane. Cane boxes were custom built with evenly spaced rope sized holes drilled through the top and bottom. Precut sections of rope were strung through the top and tied off at the bottom, allowing for the interior knot to hold the rope in place and taut. Jute rope can be the key to the design. Most of the women who belong to the socio-economically backward sections of the society are engaged in natural fiber weaving to produce objects for daily use. It is one of the cheapest and the strongest of all-natural fibers and is considered as fiber of the future. It has no adverse effect on the human body and Mother Nature as a whole.

Keywords: Fiber, A fine thread, Crop

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2 Recreating the traditional Kashmiri arts in contemporary interiors with sustainability

Paper ID V6I5-1140 · Pages 3-7 · Architectural Interior Design

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Apart from the scenic beauty of Kashmir, it is also renowned for its carpets weaving. It is a matter of pride for India Legacy. The weaving skills have been passed down by fathers to their sons, who have built upon those and in turn, handed them down to their offspring as a closely guarded family secret. A quality Kashmiri new carpet must be handmade or maybe palm knotted by 100% pure made of wool or maybe 100 % pure man-made fiber. This handicraft is unique in terms of design, cost, and quality of products. The study focuses on contemporary challenges and thereby providing suitable suggestions in order to make this handicraft more sustainable in the future. This craft is expensive, time taking, and required skilled weavers to do it. The motifs, patterns, and colors used in this art are unique apart from the weaving patterns. In the contemporary world this art cannot be applicable in its original form at every interior space. So, recreating carpets, wallpapers, fabrics

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used in furnishing of interiors with the motif patterns, and colors used in this could make this art sustainable. This can be the best way to add the history and memory of ancient people.

Keywords: Handicrafts, Craftsmen, Carpets, Materials

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3 IoT based Electrical Power distribution through Telegram Bot and Web Cloud

Paper ID V6I5-1141 · Pages 8-11 · Electrical And Electronic

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Bangbang Hermanto, Politeknik Negeri Pontianak, Indonesia

The convenience of distributing electrical power and monitoring the load in homes, offices, as well as industries is very important. This enables the periodic and easy monitoring of changes or disturbances that occur in a load globally. This project monitors and controls the Electrical Power distribution system through a Telegram Bot and web cloud (Thingspeak.com). The Telegram Bot, which is available on Telegram, a social media application, is used to send commands to the electrical loads and also receive feedback in the form of a voltage (V), current (I), and Power (P) parameters. Meanwhile, the Web cloud (Thingspeak.com) is used to display the parameters in graphical or numerical form. Furthermore, the "peak to peak" method produces accurate voltage and current measurements using the ZMPT101B and ACS712 sensors. The result showed that the sensor readings are carried out alternately using a Multiplexer (Mux), to provide flexibility for another additional sensor. Therefore, the load control system is equipped with a TPR (Thyristor Power Regulator) circuit to regulate the amount of power.

Keywords: Telegram Bot, IoT, Thingspeak, Peak to Peak

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4 A review- Effect of drilling process parameters on thrust force

Paper ID V6I5-1142 · Pages 12-13 · Manufacturing

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S. K. S. Yadav, Assistant Professor, Harcourt Butler Technical University, Kanpur, Uttar Pradesh

Drilling is one of the most common manufacturing processes in various industries like automobile industry, Aerospace industry, watch manufacturing industry and medical industries. It plays an important role for quality of manufactured product. For assembly of product drilling, boring, reaming process are used. Many input drilling parameters are feed rate, spindle speed, drill diameter, cutting fluid, depth of cut, work piece material, tool material, helix angle, point angle, clearance angle, types of tool, etc. The performance parameters for drilling are Material removal rate, surface roughness, thrust force, torque, tool life, etc. This paper illustrates a literature review on effect of drilling drilling process parameters such as feed rate, drill diameter, spindle speed on thrust force. The thrust force is calculated by the force sensor or dynamo meter. In this paper it studied that the feed rate and spindle speed are the significant factor for thrust force.

Keywords: Drilling Process, Input Process Parameters, Thrust Force

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5 Portable IoT based health monitoring system

Paper ID V6I5-1144 · Pages 14-17 · Iot And Healthcare

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In present times, the number of patients is increasing rapidly. There are many health management systems and the systems are lacking in one or other features. One of the major issues is that not all patients are treated with utmost care which can sometimes be dangerous in case of emergency or critical patients and common people cannot be able to afford the basic health monitoring system. The lack of communication between patients and the hospital staff might be there because of the patient's health conditions, effects of medication, because they have an ongoing disability. Existing systems are digital but they aren't portable, which creates a vast problem and communication gap between hospital staff and patients. This motivates us to solve the aforementioned problems in the existing system using sensors which solve the problem of portable devices for measuring the patient health parameters and send the readings to the cloud database, these reading can be used by the doctor during patient diagnosis as the history is saved in the cloud . The proposed health management system will solve the problems related to real-time monitoring of patient's conditions without being connected to the bed in the hospital all the time as it is simple to implement, use and cost effective.

Keywords: Sensors, IoT, Raspberry Pie

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6 Thermal modelling of spark in wire cut EDM

Paper ID V6I5-1145 · Pages 18-21 · Unconventional Machining

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Dr. S. K. S. Yadav, Assistant professor, Harcourt Butler Technical University, Kanpur, Uttar Pradesh

Wire EDM is a non-contact machining process of contouring different intricate shapes from bulk material. The phenomenon behind material removal is high temperature due to spark in the wire the material melts and vapours. This process enables the manufacturer to fabricate new high-temperature resistive material. The wire is made of brass on which the analysis has been carried out. The existing work deals with Thermal modelling of spark using ABAQUS CAE software. The material of wire considered is brass. Heat transfer is transient in nature due very small time available to single spark. The variation of heat flux and temperature were analyzed by results obtained from modelling.

Keywords: Wire EDM, ABAQUS CAE, Meshing, Finite Element Method

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7 Discrimination faced by a girl child in the 21st century in India

Paper ID V6I5-1138 · Pages 22-26 · Social Science

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There is a fast growing notion that stereotypes feminism as misogyny and advocates that men are unfairly portrayed as the superior gender. Through this paper, case studies, evidence, and facts have been provided discussing the prevalent gender stereotypes and norms along with the gender specific crime rates. The paper has taken India as its object of study and found statistics all based on the current timeline of the 21st century to highlight these facts. It aims to prove that acceptance of equality in the face of adversity and obvious discrimination puts centuries of struggle by women on the back foot, and that the growing norm is in fact false under the discussed parameters.

Keywords: Gender Bias, Discrimination, Indian Norms, 21st Century, Gender-Based Crime Rates, Domestic Violence, Female Infanticide, Feminism, Misogyny, Chauvinism, Gender As An Identity, Stereotypes

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8 An introduction to context-aware security and User Entity Behavior Analytics

Paper ID V6I5-1137 · Pages 27-33 · Computer Engineering

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A context aware system is recognized as a "system which uses any context information previous to, or in the duration of, service stipulations", whereas the main goal of this system is to identify any suspicious activity done by the users. The mobility feature of most computing and personal devices have made the 'context of the user' an important aspect of the system. Nowadays with the ever-increasing digitization of the workplace, employees are using their personal devices along with the organization resources provided to them. Context Aware security systems vary from conventional systems, as they provide unique characteristics such as name, geolocation, time of day or type of endpoint system to boost information security decisions. Combine this with a model that notifies and alienates any abnormal activity by the user, we have a strong security measure against harmful cyber activities such as unauthorized end users accessing confidential data, preventing users to download sensitive data onto external devices, and so on. Context-aware security systems address the usability challenge of accessibility and authentication, i.e., to use inferential information such as geolocation, identity, type of endpoint device, or time of day to enhance information security decisions. The use and importance of this system is increasing and therefore plays a huge role in prospective pervasive systems. The goal of this paper is to introduce the reader to the concept of context aware security and lay the groundwork that one needs to get accustomed to the topic, by extracting various topics from different research papers.

Keywords: Authentication, Context-aware application, Context-aware Security, User Entity Behavior Analytics

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9 Development and biochemical analysis of Amla-Betel leaf extract impregnated jelly

Paper ID V6I5-1146 · Pages 34-36 · Food Technology

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The objective of this research work is about developing a herbal jelly by incorporating Amla and betel leaf extract. Amla is a green colour translucent fruit which is loaded with more nutritional benefits. Amla is an excellent source of vitamin c and this vitamin c helps in building our immunity. Next is the betel leaf extract which is also enriched with more health benefits. These betel leaves are full of vitamin c,niacin and riboflavin and it has an Excellent healing properties. These betel leaf treat colds and also aids in digestion. So our idea is to develop a jelly by combining all these products. Our jelly is completely free of artificial colouring and flavouring agents. After preparation,the jelly was filled in sterilized bottles and stored under both ambient and refrigeration temperature for about 60 days and the biochemical parameters such as moisture content, TSS, pH, Titratable acidity were analysed. Under ambient temperature, moisture content decreased from 26.80% to 24.90 %and pH increased from 3.6 to 4.3 and Tss increased from 65 degree brix to 72 degree brix and Titratable acidity increased from 0.48 % to 0.67%.Under refrigeration temperature, the moisture content decreased from 26.80% to 25.83%, ph increased from 3.6 to 4.2,Tss increased from 65degree brix to 69degree brix and titratable acidity increased 0.48% to 0.54%. Sensory evaluation was also performed and the developed jelly obtained an excellent sensory score.

Keywords: Herbal, Translucent, Immunity, Niacin, Riboflavin

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10 Predicting Diabetes using Machine Learning Technique

Paper ID V6I5-1152 · Pages 37-43 · Computer Science

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Diabetes is a chronic illness with the potential to induce a worldwide health care crisis. As per the International Diabetes Federation, 382 million people exist with diabetes in the world currently. By 2035, the number is expected to be doubled as 592 million. Diabetes mellitus or diabetes is a disease generally induced due to the grown level of glucose in the blood. Physical and chemical tests are different traditional methods for diagnosing diabetes. However, diabetes prediction in advance is pretty challenging for medical practitioners due to complicated interdependence on multiple factors as diabetes influences individual organs such as eye, heart, kidney, eye, nerves, foot, etc. Data science techniques have the potential to help the medical field by

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answering some of the general questions. One such task is to facilitate predictions on medical data. Machine learning is the most useful technology for the medical field in data science. Machine learning is helpful because of the way machines learn from experience. This project aims to propose a valuable technique for earlier detection of the diabetes disease for a patient with higher efficiency by combining the outcomes of different machine learning techniques, the supervised machine learning methods including Decision Tree, Logistic Regression, Random Forest, Neural Network, XGBoost, and Support Vector Machine

Keywords: Diabetes, Machine Learning, Decision Tree, Logistic Regression, Random Forest, Neural Network, XGBoost, Support Vector Machine

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11 Evolution of the Indian Telecom Industry and its impact on consumer

Paper ID V6I5-1153 · Pages 44-50 · Economics

Sahil Koita, Student, Independent Researcher

The purpose of this paper is to profile the Indian telecom industry (2015 – 2020) from an economic and game theoretic perspective. The Indian Telecom industry has undergone massive change over the last few years, and the paper investigates the long run impact of these changes on consumer welfare. The paper uses literature and books on different oligopoly models and pricing strategies to explain the workings of the telecom industry. These models are verified using empirical data. The first section of the paper explains the entry of new firms in an oligopoly, and the second section explains how present and future equilibrium models, pricing strategies and collusion in the telecom industry impact consumer welfare. The study uses the models discussed to predict the future of the telecom industry and identifies the role of the government in order to increase long run consumer welfare.

Keywords: Reliance Jio, Indian Telecom Industry, Consumer Welfare, Oligopoly, Collusion

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12 Towards Singularity: Implications to Intelligent UI with Explainable AI approach to HCI

Paper ID V6I5-1158 · Pages 51-54 · Computer Engineering

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This paper has the aim of incorporating and prototyping the realms and the possibilities of future UI designs. It collectively analyses recent AI techniques and signifies the need for Intelligent User Interfaces (IUIs) that might shape future inventions and act beneficially for understanding the technological impacts it can produce. The architecture of HCI is prone to undergo a drastic transformation where multimodal interaction through cyborg automation will play a major role in singularity. For solving current issues in UI designs such as gender, disability, and color issues, Explainable AI (XAI) is further improving interpretability and explainability of Machine Learning (ML) algorithms. This paper furthermore explains the convergence of Engineering and Life sciences with its association to improving the outlines of future UIs on a process of gaining collective intelligence.

Keywords: UI (User Interface), AI (Artificial Intelligence), IUI (Intelligent User Interface), HCI (Human Computer Interaction), XAI (Explainable Artificial Intelligence), ML (Machine Learning)

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13 Wireless transmission of electricity through EM waves

Paper ID V6I5-1160 · Pages 55-58 · Electrical

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Modern problems require modern solutions. The most important thing in power engineering is the transmission of electricity from place to place. No.of disturbance can be produced form the wireless transmission as like the conventional transmission lines. This paper is going to present brief information about one possible way of wireless transmission of electricity which could be useful for the near future. The true potential of wireless transmission has never witnessed. The potential of wireless transmission can change the perception of what we see in the field of electricity. Transmission of power from the source to load could be easy through the air without any interconnecting wires. In this particular paper using EM waves from magnetron as transmitter and using carbon nanotubes placed in the solar panel as receiver for the conversion of EM waves into electrical energy can be explained. By this proposed constructional we can transmit electricity where the world has never seen.

Keywords: Solar Cell Architecture, Solar Absorber, Solar Cell Performance, Solar Energetic Particles, Solar Irradiation, Electro-thermal Simulation, Electromagnetic Beams, Carbon Energy Transition, Carbon Fiber Reinforced Polymer, Nanocomposite Structure

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14 Removing the impurities chloride & alkalies from granulated blast furnace slag

Paper ID V6I5-1163 · Pages 59-64 · Civil Engineering

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The river sand and manufactured sand forms by the crushed rocks in millions of years. Nowadays, the

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reduction of river sand and manufactured sand is too fast in our environment because of our rapid construction world. So the GBFS (Granulated Blast Furnace Slag) is used at the place of river sand and manufactured sand but the presence of alkali and chloride in GBFS causes different problems like corrosion in reinforcement, react with external agents, high heat generated during the heat of hydration process and less durability. In this project, the foam separation method is adopted for removing the presence of alkali from GBFS (Granulated Blast Furnace Slag) and balance the pH value of crushed slag just like river sand and manufactured sand. The alkali and chloride remove from crushed slag in the form of bubbles and floats over the surface. The pH value balanced like river sand and manufactured sand. By using the foam separation method, 99% of alkali removed from GBFS (Granulated Blast Furnace Slag). The pH value of GBFS is balanced as equal to the river sand which is approx 7.00. The external effect of rainwater and chemical attacks are protected by removing the alkali from GBFS (Granulated Blast Furnace Slag). The total weight of construction also reduces because of the less value of bulk density of slag i.e. 1200kg/m³. After this method N-A-S-H OR C-A-S-H gel substituted by the C-S-H gel which is the same as well as river sand mix concrete. Also, protect our forest soil and area which places dumped by the Slag and its harmful to the soil nutrients and also for ecosystem.

Keywords: GBFS (Granulated Blast Furnace Slag), Sodium Lauryl Sulphate, Foam Separation Method, Balance pH Value of Crushed Slag, Protect Natural Sand

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15 Autonomous Railway Track Crack Detection and Accident Prevention System

Paper ID V6I5-1159 · Pages 65-68 · Electronics And Communication Engineering

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Train derailment is a predominant issue that needs to be solved, the major cause of the derailment is due to cracks and bridges on the track. To overcome this problem we have proposed an autonomous system (Robot) that uses an ultrasonic sensor with a range of 30 cm primarily based on distance measurement and density sensor to detect deeper cracks, the sensor is used to detect cracks present on the railway track by sending ultrasonic waves. As soon as the crack is detected the GPS Sensor is used to find out the latitudinal and longitudinal coordinates of the area where the crack is detected. The detected crack along with the exact location is sent to a nearby railway station using a GSM module. These data are then sent to the cloud server which is then analysed and compared with the threshold and the cracks can be rectified on the exact location of the damage. The proposed self-governing system is a robot along with wheels and motors which are controlled by a motor driver. Here we are using an Arduino Uno Microcontroller. These sensors and modules are integrated with this Arduino UNO board. The board is uploaded with a program using the Arduino IDE to carry out the crack detection function. This board takes readings from the ultrasonic sensor and these readings are continuously stored in the cloud for analysis and it accordingly communicates with the other module to effectively detect cracks beneath the surface of the tracks and on the surface.

Keywords: Ultrasonic sensor, Crack Detection, Arduino IDE, Density sensor, PS sensor

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16 Evaluation of pectin based edible coating impregnated with mango leaf extract to reduce the post-harvest losses of tomato

Paper ID V6I5-1164 · Pages 69-72 · Food Technology

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The edible coating is any type of material used for enrobing, coating, or wrapping various food to extend the shelf life of the products and also to protect the fruits from microbial contamination. Tomato (Lycopersicon esculentum) is a highly perishable product and it gets spoiled quickly due to various post-harvest conditions, so considering these facts our research work was conducted to evaluate the efficacy of pectin based edible coating impregnated with Mango leaf extract on the Physicochemical parameters of the produce. The present work was carried out by preparing an edible coating solution which consists of pectin (5%), glycerol (1%), Mango leaf extract (2%) and the fresh Tomato were immersed into the edible coating solution and stored under room temperature. The fruit sample was then divided into two slots T1(uncoated samples) and T2(coated samples). Both coated and uncoated tomato samples were stored under ambient temperature(30℃). The effect of pectin based edible coating impregnated with Mango leaf extract on physicochemical properties of the tomatoes were studied and recorded. A comparison was made on the physicochemical properties of the both uncoated and coated samples and results were tabulated. With the obtained results it was concluded that the prepared edible coating solution protected the sample from deterioration when compared with the uncoated samples and the shelf life of coated sample was extended to 15 days under ambient temperature.

Keywords: Edible Coating, Enrobing, Wrapping, Pectin, Deterioration

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17 Extraction of anthocyanin from plum peels

Paper ID V6I5-1165 · Pages 73-77 · Food Technology

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Food colors are added to food to give attractiveness or compensate for the natural color loss due to light, air, moisture, etc., improving the safety of food products, and enhancing beneficial health effects is a necessity and a major challenge. Anthocyanins are the water-soluble pigments in nature. Anthocyanin extracted from plum by

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using various methods such as solvent extraction method, enzyme assisted method, and ultrasonic-assisted extraction method, aqueous to phase extraction method, subcritical water extraction method, and microwave-assisted extraction method. The commonly used method is solvent extraction. Especially for cyanidin and peonidin-3-glucoside. Identification of anthocyanin can be done by various chromatographic methods which include thin-layer chromatography high-speed chromatography, reversed-phase ion-pair chromatography. In the present study, HPLC is used for the qualification of anthocyanin content.

Keywords: Anthocyanin, Natural Colorant, Solvent Extraction, HPLC

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18 An experimental study on strength and self healing characteristics of bacterial concrete

Paper ID V6I5-1173 · Pages 78-83 · Civil Engineering

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Concrete is the most commonly used building material which is recyclable. It is strong, durable, locally available and versatile. It is capable to resist the compressive load to a limit but if the load applied on the concrete is more than their limit but if the load applied on the concrete is more than their limit of resisting load, it causes the strength reduction of concrete by producing the cracks in concrete and the treatment of cracks is very expensive. Cracks in concrete affects the serviceability limit of concrete. The ingress of moisture and other harmful chemicals into the concrete may result in decrement of strength and life. Micro-cracks are the main cause to structural failure. One way to circumvent costly manual maintenance and repair is to incorporate an autonomous self -healing mechanism in concrete. One such an alternative repair mechanism is currently being studied, i.e. a novel technique based on the application of biomineralization of bacteria in concrete. The applicability of specifically calcite mineral precipitating bacteria for concrete repair and plugging of pores and cracks in concrete has been recently investigated and studies on the possibility of using specific bacteria as a sustainable and concrete-embedded self-healing agent was studied and results from ongoing studies are discussed. Synthetic polymers such as epoxy treatment etc. are currently being used for repair of concrete are harmful to the environment, hence the use of a biological repair technique in concrete is focused. Recently, it is found that microbial mineral precipitation resulting from metabolic activities of favourable microorganisms in concrete improved the overall behaviour of concrete. Hence in this paper define the bacterial concrete, its classification and types of bacteria, chemical process to fix the crack by bacteria, advantages and dis-advantages and possibilities of application of MICP (Microorganism used for Calcium Carbonate Precipitation in Concrete).The different strengths of Normal concrete and concrete with different concentrations of Bacteria Bacillus spp were used and tests were conducted and compared.

Keywords: Bacterial Concrete Materials, Material Tests, Mix Design, Compressive Strength Test, Flexure Strength Test, Split Tensile Strength Test

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19 Automotive control system using CAN protocol

Paper ID V6I5-1176 · Pages 84-87 · E&tc Engineering

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Most of the accidents occur because of alcoholic people and the failure of braking systems. So this paper describes a driver's alcohol detection system based on breath sample testing and automatic control of the braking system to avoid accidents. When driver starts the ignition system, the sensor measures the concentration of alcohol into its breath and switches off the ignition system. This system is also able to control the accidents that occur due to the unconsciousness of the driver, uncontrollable speed of the vehicle, and manual operation of the braking system by applying automatic breakthrough electronics devices to minimize the accident problems. When the vehicle gets closer to any object, automatically brakes will be applied. This system helps in achieving effective communication between transmitter and receiver modules using the CAN protocol. The protocol was developed aiming at automotive application switch sensors to monitor the parameters and visualize them to the vehicle driver through an LCD display. The human drivers check the parameters in the vehicle on the LCD screen at the same time of driving and control over the vehicle.

Keywords: CAN, Alcohol Sensor, Ir Sensor, Intelligent Braking System, LCD Display

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20 A-leach in 3-dimensional wireless sensor network using gateway

Paper ID V6I5-1155 · Pages 88-94 · Networking

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Wireless Sensor Networks are those networks in which communication is carried out through a wireless channel. A sensor network is a group of specialized transducers intended to monitor and record conditions at diverse locations. These parameters are temperature, humidity, pressure, speed, intensity, vibration-sound intensity, PIV, etc. The numbers of towers in the area act as sensors are called nodes in wireless sensor networks. Thus from one node to another, communication is carried out without any physical link. A network consists of numbers of nodes with one as a source and one as a destination. This paper proposed the A-LEACH protocol and cluster member-elect cluster head to avoid excessive energy consumption. Cluster Head is responsible for creating and manipulating a TDMA schedule & sending aggregated data from nodes to the BS where this data is needed using CDMA. A gateway is a network point that reduces the distance between CH and BS in WSNs. This paper proposed a multiple hops data transmission and make an energy-efficient and energy conservative protocol design to increase data rate.

Keywords: Wireless Sensor Network, A-LEACH, Heterogeneous Network, Cluster Head

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21 Blood donor web app

Paper ID V6I5-1196 · Pages 95-98 · Computer Science

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Kamala V, Faculty, KGiSL Institute of Technology

Finding blood donors through social media is an alternative solution There’s a high probability that we might not find the right donor when we share our need on social media but the community the blood donor app gone a create is huge when we compare to our local contacts. Help the user find a donor as quickly as possible

Keywords: Web Application, Chatbot, Artificial Intelligence, Firebase, Hybrid Application

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22 Action plan on childhood obesity in the UK & Canada – a comparative review

Paper ID V6I5-1184 · Pages 99-101 · Health Policy Analysis

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Overweight and obesity are defined as ''abnormal or excessive fat accumulation that presents a risk to health''. Obesity is a global public health issue affecting people of every age. Recently, economically developed countries are facing a significant and rapid growth of the childhood obesity epidemic. This paper aims to analyze and compare the formation and implementation of Action plans against childhood obesity, including the actors involved and the policy process of two countries, i.e., the UK and Canada.

Keywords: Childhood Obesity, Action Plan, Health Policy

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23 Posture and Activity Analysis for Patients in Rehabilitation

Paper ID V6I5-1192 · Pages 102-107 · Computer Science

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Recognizing the patient's posture and physical actions is the key focus on their rehabilitation to restore or enhance the functional and motor abilities of those with physical disabilities. In this paper; we focus on the gross motor skills in adults who are in rehabilitation from an injury and will present a method for recognizing their posture and activities using a sequence of RGB-D images. The shape features are extracted using the depth information in the frequency domain via spherical harmonics representation.

Keywords: Human Posture Recognition, RGB-D camera, Depth Map, Skeleton Data, Heat Map

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24 Investing on common stocks

Paper ID V6I5-1202 · Pages 108-112 · Share Market

Dr. Hasith Soysa, Doctrate Degree Holder, Independent Researcher

Stock Exchange is a critical aspect of a financial market. Shares are purchased and sold on stock exchanges. Common stock is security which represents ownership of an organization. Holders of Common stock choose the Directors and have the right to vote on company policies. Investing stock requires a close review of the financial reports to assess the true valuation of the product. Generally, this is done by examining the profit and loss account, balance sheet, and cash flow statement of the company. A simpler method to identify out about the performance of the company is to look at its financial ratios, most of which are available in this report. Although speculating is equivalent to gambling, it is not quite the same when speculators seek to make an appropriate decision regarding the future of their companies. These traders are purchasing shares with the expectation that they will only be owned for a limited amount of time before selling. Ratio analysis is important for investment decisions. It not only helps to learn how the business performed. Also, makes it easier for investors to compare the right investing option with firms in the same sector. The philosophy of diversification is one of the main principles of fund management which basically involves avoiding placing all the eggs in one basket. Investors should never have fewer than 25% or more than 75% of the assets in common stocks. A key part of value investing is making sure the assets have a margin of protection. How large a margin of safety is considered depends on a variety of variables, including market conditions, risk tolerance, and also the company's fundamental prospects. The thinner margin of safety might be accepted in special situations. Decide what you intend to do with your portfolio, and stick to it. Choose an area you're involved in, and discover the news and events that drive it every day. Identify the number of businesses or firms that dominate the market. Keywords: Investment, Speculation, Stock Market, Common Stock

Keywords: Investment, Speculation, Stock Market, Common Stock

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25 Transformer fault identification and load sharing using the internet of things

Paper ID V6I5-1206 · Pages 113-116 · Electronics And Instrumentation Engineering

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This paper is about the design and implementation of a mobile embedded system to monitor and record key parameters of a distribution transformer like load currents, and ambient temperature. The idea of an online monitoring system integrates a Global Service Mobile (GSM) Modem, with a standalone Arduino and different sensors. It is installed at the distribution transformer site and the above parameters are recorded using the analog to digital converter (ADC) of the embedded system. The obtained parameters are processed and recorded in the system memory. If any abnormality or an emergency occurs the system sends SMS (short message service) messages to the mobile phones containing information about the abnormality according to some predefined instructions programmed in the microcontroller at the same Time the data’s of transformers

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health will automatically be uploaded to the cloud for future analysis. This mobile system will help the transformers to operate smoothly and identify problems before any catastrophic failure.

Keywords: Distribution Transformer, Global Service Mobile, Arduino, Analog to Digital Converter, Programmed Microcontroller, Transformer Health.

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26 Calculation of client credit risk prediction in banking sector using data mining

Paper ID V6I5-1208 · Pages 117-120 · Cse

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The use of credit scoring can be used to assist the analysis of credit risk in assessing the eligibility of the applicant. As a valuable method for credit rating, data mining has been proven. Many credit scoring models for determining the creditworthiness of loan applicants have been established over the last few years. With an obligation to repay over a period of time, credit provides access to capital today, There may be financial sources, or they may consist of goods or services. Today, credit has become a very necessary component of daily life. Although credit cards are currently the most common type of loan, other credit plans include, among others, residential mortgages, car loans, student loans, small business loans, commercial lending, and bonds.

Keywords: Credit Card, Financial, DecisionTree, DataMining, Prediction

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27 Human Resource practices and job satisfaction with special reference to hotels

Paper ID V6I5-1212 · Pages 121-126 · Human Resource Management

Dr. Hasith Soysa, Doctrate Degree Holder, Independent Researcher

Job Satisfaction is conscious willfulness to seek for other alternatives in other organizations. Human resource management (HRM) is known as the central business concern, that shapes the behavior, attitudes, and performance of the employees, This study empirically evaluated six Human Resource (HR) practices (Careful recruitment and selection, Extensive remuneration systems, Team working and flexible job design, Training and learning, Employee involvement, Performance appraisals with links to contingent reward systems) and impact on the Job Satisfaction of the employees in five-star hotels in Sri Lanka. The sample consisted of one hundred and twenty-six employees working in all five-star hotels in Sri Lanka. The data were gathered by administering questionnaires. Considering the relationship between Human resources practices and Job Satisfaction, the analysis represents that there is a positive and the relationship between Careful recruitment and selection, Extensive remuneration systems, Team working and flexible job design, Training, and learning, Employee involvement, Performance appraisals with links to contingent reward systems. The result was implying that the effect of Team working and flexible job design on Job Satisfaction is higher than in other relationships. However, Human resource practices play a vital role in Job Satisfaction in accordance with all level employees

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in five-star hotels. Further Team working and flexible job design is more important to employee Job satisfaction.

Keywords: Human Resource Management, Job Satisfaction

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28 Data and key encapsulation for the smart grid using improved AES and difference expansion algorithm

Paper ID V6I5-1198 · Pages 127-133 · Electrical Engineering

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Smart Grid (SG) is an advanced electrical power grid. SG collects the user's smart meter data over the public network. After that, based on the data, generate the bills, and predict the electricity demand. The data contains sensitive information about users. Thus, the privacy of the users is required for better assessment. To preserve the privacy of the user, symmetric cryptography algorithms are used. In the symmetric algorithm, the same key is required for encryption/decryption purposes. Thus, the key is communicated to the receiver with the encrypted data. Thus, it is prone to eavesdropping and tampering attacks. Therefore, in this paper, we have designed data and key encapsulation algorithm that secure the data as well as the key. We have used the Advanced Encryption Standard (AES) algorithm for data security and difference expansion algorithm for key security. Further, to reduce the encryption time of data encryption, software optimization algorithms used. Next, the encrypted data bits read, and a difference expansion algorithm is applied on it to hide the key bits in the encrypted data. The advantage of the difference expansion algorithm is that the original encrypted data bits recover with key bits extraction. The experimental results show that the data and key encapsulation takes less execution time, provide better security as compared to the existing algorithm.

Keywords: Smart Grid, Advanced Encryption Standard, Difference Expansion, Binary Search Algorithm.

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29 Analysis and assessment of sewage water treatment plant by using PLC

Paper ID V6I5-1210 · Pages 134-137 · Electronicsand Telecommunication Engineering

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Sewage water consists of Agricultural, industrial, and human wastes. It is mandatory to remove organic material by the process of sewage water treatment. The sewage treatment plant involves physical, biological treatment stages. An important objective of municipal and industrial sewage wastewater treatment is to separate pollutants, remove toxic materials, neutralize coarse particles, and destroy pathogens such that the quality of discharged water is more improved to meet the allowable level of water to be discharged into water bodies or for cultivated land. The target of secondary treatment is that the further treatment of the effluent from primary treatment to get rid of the residual organics and suspended solids. The main objective of wastewater treatment is to get rid of as considerably of the suspended solids as possible before the remaining water, called effluent, is discharged back to the environment. To avoid wastage of water by recycling water

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discharged from companies, homes, businesses, and industries and reduce pollution, to be used in the agricultural sector and domestic purpose.

Keywords: Programmable Logic Controller, HMI, Sewage Water Treatment Plant, Effluent, Ladder Logic Programming, Activated Sludge

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30 Smart garbage monitoring system using IoT

Paper ID V6I5-1220 · Pages 138-140 · Information Technology

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A big challenge is urban cities is the garbage collection process. The garbage collecting authority or the municipal corporation peoples in the traditional waste management system doesn't know about the level of garbage in the dustbin, if the dust bins get full by garbage then it gets overflowed as well as spelled out from the dustbin leading to an unhygienic condition in cities. Even if the dust bin is overloaded by garbage peoples throws the garbage on that dustbin. Because of that overflowed dustbin and the spelled garbage, bad smell arises also it leads to unhygienic conditions in many cities. Sometimes due to unclean dustbins, some toxic gases may produce and which will support to air pollution. Also, some harmful diseases may spread. It is very bad to look at the city. Due to which unhygienic condition occurs. The use of traditional system result in inefficient and time and money spending systems. So the concept of the Smart Garbage Monitoring System is implemented in cities. Where the rate of production of garbage or waste is high but efforts put to control the garbage management are very less. In order to overcome this many issues stated above smart garbage monitoring system using IoT will help.

Keywords: GPS, Ultrasonic Sensor, Led, MQ-6 Gas Sensor, Arduino ,Node MCU.

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31 A compact monopole antenna for UWB applications

Paper ID V6I5-1224 · Pages 141-144 · Wireless Communication

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This paper presents a compact size monopole antenna for wide range of application. The base antenna consists of a falcate-shaped monopole antenna and a slot is inserted in base patch. The proposed antenna dimension is 40 × 46 mm² and is fabricated on 1 mm FR4 substrate. This antenna is designed to operate at the frequency of (3-10.5 GHz) with good return loss. The results provide high gain and directivity in wide range. This circularly polarized (CP) antennas are used in various fields such as satellite communication systems, radio frequency identification (RFID), dedicated short range communication systems (DSRC), WLAN and WiMAX in modern wireless communication

Keywords: Falcate Antenna, Circularly Polarized, Monopole Antenna, Frequency Range (3-10.5ghz)

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32 Study on the impact of COVID-19 on public transport ridership

Paper ID V6I5-1239 · Pages 145-147 · Civil Engineering

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India's public transport systems are among most heavily used in the world. Public transport is the primary mode of road transport for most of the citizens of India. This Covid-19 crisis has crippled all sectors of the economy across the world. One of the worst affected sector by this pandemic is public transport. During the lockdown, the bus services, metro, trains as well as flights were completely stopped by the Government of India. Nobody was allowed to travel even in private vehicles as it would have increased the risk of infection until and unless it was very important. Now, since the public transport operators are allowed to resume their services, they are focussing on how to overcome the losses they have met during this lockdown period. This lockdown has hit them seriously as people are concerned about their safety and moving out and travelling. This paper represents how much loss the public transport sector has faced during lockdown due to corona virus disease-2019 and what measures should public transport operators has to take to recover their loss.

Keywords: Public Transport, Covid-19, Lockdown, Breakdown In Economy, Declined Ridership

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33 Modern algorithm of neural networks

Paper ID V6I5-1243 · Pages 148-151 · Artificial Intelligence

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This paper deals with researches and literature reviews on Deep Neural Network. In the area of biometrics, identification, access- control, enforcement, digital identification, surveillance devices and face recognition (FR), defining the technique of human beings using facial imaging, is a multitude of hands-on applications. Coevolutionary neural networks (Cov-Nets) have proved to be efficient for FR, a type of deep networks. Any pre-processing procedures, such as sampling, must be taken for real-time systems prior to use in Cov-Nets. However, full images (all pixel values) are also transferred to Cov-Nets as input and all steps are performed by the network (feature collection, function filtering, training). That's why Cov-Nets is always difficult and time-consuming to introduce. Cov-Nets are at a rising level, with very little precision, but they have a high potential reach. This paper offers a new perspective on the use of a deep neural network for facial recognition. A new approach is being developed in this paper. In this approach, facial features that are extracted are provided as input instead of raw pixel values. This decreases the complexity and gives the Yale data set quality of 97.05 percent.

Keywords: ANN, CNN, DNN, RNN, Neural Net, Face Recognition

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34 Power quality improvement of integrated PV/wind grid-connected system

Paper ID V6I5-1204 · Pages 152-158 · Power System

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Integrated PV/Wind grid-connected system is emerging as a solution to duo problems of the conventional power systems of high transmission losses and shortage of conventional sources. Traditionally integrated non-conventional system of electricity generation obtained from different sources is collected at a common DC bus or are connected electrically through power converters to extract maximum energy. The incorporated power converter topologies utilize different generators and control strategy to supply the load according to their voltage and harmonic content. The work done is to analyze the interface of solar electric and WGS to restore grid characteristics. A converter has been designed using a neutral point clamped MLI to control the grid parameter as well as PV/Wind hybrid system parameters simultaneously for improving the power quality of the system.

Keywords: Integrated PV/Wind Grid-Connected System (IPVWGS), Wind Power Generation (WPG), Maximum Power Point Tracking (MPPT), Multi-Level Inverter (MLI), Point of Common Coupling (PCC)

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35 Resonance Damping of Weak Grid Connected DFIG Generation System

Paper ID V6I5-1205 · Pages 159-166 · Power System

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This work presents control of grid connected DFIG system with the HFR damping and harmonics suppressor. In order to improve the performance of the system and reduce harmonic content of the weak grid, the HFR needs to be effectively damped. In this work, the proposed active damping control strategy implemented effectively both in the Rotor Side Converter (RSC) and in the Grid Side Converter (GSC), through the introduction of virtual positive capacitor by reshaping the DFIG system impedance and mitigate the high frequency resonance.

Keywords: High-frequency Resonance (HFR), Doubly Fed Induction Generator (DFIG), Rotor Side Converter (RSC), Grid Side Converter (GSC)

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36 The history of pandemics and epidemics in India

Paper ID V6I5-1256 · Pages 167-170 · Medical Science

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Mayur Phatak, Professor, Universal Business School, Karjat

Intermittent contagious disease outbreaks have had significant and enduring socioeconomic impacts throughout history. These occurrences have profoundly influenced and also have hundreds of thousands of years of physical, political, and social facets of human society. Outbreaks of epidemics have developed some of

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clinical medicine 's foundational values, which encourage the science world to evolve epidemiological, preventive, immunization and antimicrobial medicine concepts. Global public health is improving with leaps and bounds, but pandemics are not always unexpected. The diverse types of epidemiological shifts may be one of the key reasons in and around the world for such events. India has encountered several epidemics and pandemics throughout history. This paper talks about such outbreaks known to have occurred in the 19th – 21st century and are arranged in accordance with the chronology.

Keywords: Diseases, Contagious, Outbreak

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37 Review massive MIMO utilization approaches in OFDM channel

Paper ID V6I5-1246 · Pages 171-175 · Ece

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Past years, they have become the election choice for millions of users around the world, having democratize communications. Such development allowed the world to be more connected than ever, connecting the most remote zones of the world to the rest of the world. Massive MIMO have the capability of expanding even more its influence, if they can increase the quality and capacity. If such objectives are obtained the wireless systems will be able to become the most important communication system in use, substituting even optical fiber cable in some cases. With the development of technology, there is a much great need for quality of the service and bigger data streams. Increasing the capacity of a telecommunication system will allow to cope with that need. The solution for the need for capacity, can be solved with the use of massive multiple input multiple output (MIMO) techniques, since MIMO system approach have already shown to increase the capacity of a wireless system. The implications of this approach will make systems more complex and more energy consuming, in order to sustain the massive MIMO system.

Keywords: Massive, MIMO, Optimization

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38 Non – Performing assets and its impact on profitability

Paper ID V6I5-1266 · Pages 176-178 · Financial Sector

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The financial industry assumes a vital part in the Indian economy. Estimating and keeping up the advantage nature of banks is significant for the advancement of the financial division. These days, the benefit quality in banks, particularly the Public Division Banks is continually breaking down and accordingly making insufferable pressure the financial part, controllers, and Indian economy. The goal of the current examination is to comprehend the degree of Non-performing Assets (NPA), and how it impacts the productivity of the banks. For this reason, the examination thought about Gross and Net NPA of 10 Public and Private division banks from

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April 2014 to March 2018. The examination recognized that both general society and private segment banks steadily increment their Net and Net NPA during the period. The investigation found that there is a huge positive connection between Gross NPA and Net NPA of public and private area banks. The examination additionally found a huge negative connection between NPA with Return on Assets (ROA) of public and private part banks. The effect of possession (public and private division banks) altogether impacts the Gross and Net NPA.

Keywords: NPA, Banks, Financial

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39 A study on emotional maturity and birth order

Paper ID V6I5-1272 · Pages 179-185 · Psychology

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In this paper, an attempt has been made to study the effect of Birth Order i.e. the order in which a person is born into their family on the emotional maturity of the person. It plays a significant role on the development of the child due to relationship with siblings and elders, expectations from parents etc. So in this paper, we will discuss about What is Birth Order? What is Emotional Maturity? How birth order affects the individual's emotional maturity? Why the study was conducted? Whether there is any difference between the emotional maturity of the First born and the Second/ Last born or not. The Emotional maturity scale by Y Singh and M Bhargava has been used for data collection and the statistical technique MANN WHITNEY U-TEST has also been used and the results are discussed.

Keywords: Emotional Maturity, Birth Order, First Born, Last Born, Mann Whitney U-Test

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40 Improving the efficiency of public transport- post lockdown

Paper ID V6I5-1275 · Pages 186-188 · Civil Engineering

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The whole world is under the influence of corona virus. This ongoing pandemic has created such a terrifying situation that people are not ready to come out from their houses. Corona virus across the world has imposed severe travel restrictions. Travel behaviour of the passengers is totally changed as government has imposed so many rules and regulations to follow while travelling so as to minimize the risk of getting in contact with each other. Various measures have been taken for the travellers travelling in different mode of transport all over the world. The pandemic has even led many countries to switch towards modernisation by pay using electronic mode rather than paying physically. This will help passengers to maintain social distancing while travelling. Public transport operators has face an excess breakdown during the lockdown but post lockdown there is again a ray of hope is rising as the demand for public transport is incredibly increasing day-by-day. This paper represents what measures government should take to increase the demand of public transport during this

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pandemic situation.

Keywords: Post Lockdown, Social Distancing, Shortage of Public Transport, Switching Towards Modernization

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41 Pounding Analysis of Adjacent Structures

Paper ID V6I5-1240 · Pages 189-194 · Structural Engineering

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The aim of this study is to correlate the seismic performance of a RC frame structure at different seismic demand levels with the separation gap that would be inadequate against pounding with an adjacent structure. In this direction nonlinear direct integration seismic analyses have been performed. This study includes the evaluation of the storey (floor to floor) and inter-storey (floor to column) pounding problem at fifteen seismic demand levels, using for each level 2 seismic excitations that have been properly scaled. The seismic performances of the structures without the pounding effect have also been evaluated. The results of the assessment indicate that: (a) Adjacent structure with same stories and equal storey height behaves same as no pounding structures. (b) at all the examined levels of the seismic demand, the local performance of the external column of the tall building that suffers the impact from the upper floor slab of the adjacent shorter structure is the most important issue in the inter-storey pounding phenomenon. (c)The taller structure suffers whiplash effect when pounds on adjacent shorter structure. Thereafter, the minimum required gap distance against pounding between the adjacent structures has been estimated taking into account two different criteria: (a) avoidance of the shear failure in the critical column that suffers the hit and (b) complete avoidance of the contact between the adjacent structures. The separation gap is evaluated at all the seismic demand levels for both pounding cases. In comparison to the IS 1893:2002 provisions the results of this study indicate less conservative separation gap distances between the adjacent structures at different levels of seismic demand.

Keywords: Structural Pounding, Whiplash Effect, Gap Distance, Gap Element

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42 Effectiveness of self instructional module on knowledge regarding ISBAR clinical handover communication among ICU staff nurse in PESIMSR hospital at Andhra Pradesh

Paper ID V6I5-1235 · Pages 195-198 · Nursing

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Communication has been praised as the foundation of all nursing care. Inaccurate shift handover and communication overload can be directly related to the patient's adverse outcomes. Continuity of patient care is achieved through clear and concise transfer of patient clinical information from one healthcare provider to

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another during handoff by ISBAR communication strategies. Methods: Quantitative evaluative approach of one group pertest post-test design was used to test SIM performance in ISBAR techniques. Staff Nurse were selected by convenience sampling technique and sample consists of 60 staff nurses, working in ICU PESIMSR hospital, Andhra Pradesh. Semi structured questionnaire was used for data collection. Descriptive and Inferential statistics were used to investigate data collected in terms of policies. Results: The analysis shows that, there was significant difference in mean percentage knowledge score of the ISBAR clinical communication between pertest (35%) and post-test (92%). the estimated value of parade's' value was 27.675 greater than the table value, which is known to have made significant progress in the total knowledge score. Conclusion: ISBAR clinical handover Communication tool was effective on nursing shift handovers and help for holistic care of ICU patient.

Keywords: ISBAR , Communication Tool, Self Instructional Module (Sim), Nurses

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43 Extraction, characterization and utilization of cashew nut shell liquid

Paper ID V6I5-1162 · Pages 199-202 · Waste Management

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The volume of cashew nutshell produced annually poses a challenge for the disposal of cashew nutshell generated during the production of the cashew nut. Therefore, the extraction of cashew nut shell liquid from cashew nutshell will reduce the waste, provide usefulness for the cashew nut shell liquid, and in turn generate revenue. The cashew nut shell liquid (CNSL) was extracted using the heating method at temperatures of 400C-800C and solvent extraction was carried out between the temperatures of 500C - 900C. The ash content was determined to be (1.00 and 1.20), the acid values of the CNSL found to be (15.4 and 13.0mgKOH/g). The toxicity test was conducted to know its efficacy on termites and the result shown that cashew nut shell liquid is a very active anti-termite

Keywords: CNSL, Characterization, Utilization, Comparison

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44 Case study on Communication Barriers: Ethical Issues

Paper ID V6I5-1238 · Pages 203-205 · Communication Barriers

Dr. Rajani Chandrasekhar K., Doctrate Degree Holder, Amity Global Business School, Hyderabad, Telangana

The telecom giant Vodafone Idea had been in troubled waters in the recent past, with its long term viability in jeopardy. In November 2019, at a press conference, Vodafone CEO Nick Read said that Vodafone India's future was precarious owing to the bludgeoning of taxes and penalties by the government. It was ironical that this

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statement was made, a day before the Prime Minister stated that India was a land of rapid growth with a plethora of investment opportunities. Subsequently, Vodafone India reported a loss of over 500,000 million, the very next day, one of India's largest corporate losses ever for Q2. With an already prevailing slump in telecom industry, such a statement could have led to mistrust among the employees, stakeholders, investors, etc. Later, he apologised for the apprehensions caused due to, what he termed - out-of-context reporting. He further added that he was merely reiterating the general opinion but the outrage was already committed. This episode threw light on the repercussions of tactless communication, regardless of the accuracy and truthfulness of the information. Should Nick Read have refrained from making such statements on a global platform or is honesty always the best policy?

Keywords: Business Communication, Business Ethics, Out-of-Context Reporting, Tactless Communication, Investment-Friendly, Tone and Tenor

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45 Comparative analysis of the grid-connected solar system using neutral point clamped and cascaded H-bridge ML

Paper ID V6I5-1200 · Pages 206-212 · Power System

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Balram Yadav, Guide, Scope College of Engineering, Bhopal, Madhya Pradesh

Advancement in power electronic devices has developed a class of MLI which is very efficient for the grid-connected operation of the PV system. MLIs have a higher number of output voltage levels as compared to the two/three levels in traditional inverters. The advantage of MLIs is its staircase-like output waveform, which resembles more closely to sinusoidal waveform than the traditional inverters; hence THD is very low. In the proposed work comparative analysis of 5-level neutral point clamped (NPC) and cascaded H-Bridge (CHB) MLI is designed for grid integration of the PV system. The performance analysis has been carried out under the condition of constant as well as variable irradiance for a three-phase system to obtain low THD and high efficiency.

Keywords: Multi-level inverters (MLI), Grid Tied Solar System (GTSS), Neutral Point Coupling (NPC), Cascaded MLI (C-MLI), Pint of Common Coupling (PCC)

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46 The Hindu overall image of respect and trust among other organizations

Paper ID V6I5-1150 · Pages 213-219 · Business And Management

Ratna Sarkar Dhar, Student, Ramiah Institute of Management Studies, Bengaluru, Karnataka

There is a feeling among various respondents that the newspaper has a very high standard of language which does not understand by all. The HINDU newspaper seems to have a very conservative image, unlike the other newspaper which are trendy. A notable feature of the print media, in recent years, has been the greater availability of color printing in periodicals as well as few newspapers. Among the periodicals referred to above 68 out of the 105 accepted advertisement in color. Rates for advertisement in color were double that of black

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and white as rates, or even higher. Two other developments of interest in magazine advertisements were the use of bleed both in color and black and white and double-page spreads. These indicate that a competitive era has already set-in advertising in print media. Increased rated to the face of static circulation has begun to dictate the need for greater attention-seeking the power of advertisement so that the expenditure incurred on placing them could be justified. Moreover, the print media itself has stated encountering increasing competition from television. The outcome of the project area. Leading Newspaper of Southern India.b. Strengths reflects in the statements “India‘s National Newspaper”.c.. Acknowledge for its unbiased editorial and articles. d. The newspaper caters to the need of intellectual people and is very favorite among the students who prepare for competitive exams (especially civil services). e.. One of the oldest newspapers in India. f. Salaries for the employees are the best when compared to other newspapers. g. Sports coverage is the best among all the dailies.

Keywords: The Hindu Image Potential Consumers, Newspaper, Marketing, Advertisement

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47 Challenges faced by health care workers during Covid-19

Paper ID V6I5-1252 · Pages 220-222 · Medicine

Dr. Stuti Sharma, Student, Acharya Vinoba Bhave Rural Hospital, Wardha, Maharashtra

The surge in cases of COVID -19 across the world have led to the intensive care unit health workers face unfathomable challenges. Managing rapid diagnosis, isolation, clinical management and infection prevention has been a nightmare not only for patients and people affected by this horrendous plague, but also healthcare workers who are constantly risking their lives. We talk about diagnosing COVID-19 and differentiating it from other illnesses. We also talk about treatment plans and course of illness. The key ingredients to the treatment strategies are management of acute respiratory failure and stabilizing Hemodynamic. The government, policy makers, hospital administrators, ICU practitioners etc. are putting their best foot forward in eradicating this disease from a population of 135.26 crores! This review focuses on the strength with which the Covid-19 warriors are catering to the needs of multitude of patients and how they themselves are more prone to this deadly disease than many others. Through this review we are trying to shed light on the healthcare workers’ lives and mental health during this pandemic and how they should be protected against it. Keywords: treatment strategies, course of illness, diagnosis, mental health

Keywords: Treatment Strategies, Course of Illness, Diagnosis, Mental Health

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48 Strategies for integrating Open Access Resources (OAR) into libraries collections: A study

Paper ID V6I5-1258 · Pages 223-229 · Library And Information Science

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Obiora Kingsley Udem, Lecturer, Nnamdi Azikiwe University, Awka, Nigeria
Lucky Njoeteni, Lecturer, Delta State Polytechnic, Ogwashi-Ukwu, Nigeria

The study's general purpose is to assist both management and collection development practitioners in adopting appropriate strategies for integrating OA materials into libraries collections. The study was designed to specifically examine the challenges to the integration of OAR into libraries collections and to explore relevant strategies for the integration. The study utilized an online survey questionnaire sent to Seventy Eight collections development staff drawn from academic libraries, Library Boards, and special libraries for completion. Sixty Two (62) however, were completed and returned. This implies 79.4% return rate. All the respondents surveyed are members of the Nigerian Library Association (NLA), and are certified by the Librarians Registration Council of Nigeria (LRCN). The respondents were drawn from Federal university Libraries (7), State university libraries (6), private university libraries (22), federal polytechnic libraries (5), state polytechnic libraries (12), college libraries (5), special libraries (2), library boards (3). The survey instrument included Eleven (11) items. Data were analysed using graphical charts. The findings indicate that majority of the library do not acquire OAR, but have plans to make them part of their regular library acquisition workflows; majority of them strongly agree that collection development policy is key to OAR integration, but they don't have the document for now, neither are their staff trained to manage OA effectively. Their major challenge to OAR integration include poor electricity supply, lack of knowledge and skills required for OA integration, and lack of support from the head librarian, lack of collection development policy document. The recommendations include that collection development policy should be put in place; library staff should be equipped with relevant skills through training and retraining; libraries should rather than purchasing expensive books and journals download OAR relevant to them, process them and make them available to their users as part of their collections; Libraries should be provided with uninterrupted fast speed internet access and power supply from solar power.

Keywords: Acquisition, Collection Development, Integration, Library Collections, Open Access Resources

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49 An overview on material and shape of crash box influence on the evaluation of the impact energy absorption capacity during a vehicle collision.

Paper ID V6I5-1280 · Pages 235-238 · Mechanical Engineering

Syed Samiullahhussaini Atiqullahhussaini, Student, Terna Public Charitable Trust College of Engineering, Osmanabad, Maharashtra

Foldable encroachment is the absorbers of energy playing a very crucial role in the protection of automotive components being damaged during any dispute. Any sort of disputes among the two objects leads to damage to one of the objects or in some cases both of the objects. Such damages can be scratches, fractures, or minor cracks. The designers should know about the behavior of the object or the type of material and how it will react

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under encroachment events. Different forms of energy absorbers with foldable encroachment are formed because of these factors. For the last few years, numerous experiments have been carried out to develop such foldable encroachment energy absorbers. This paper illustrates the studies carried out on typical shapes and actions of foldable encroachment energy absorbers as well as its under encroachment behavior high axial strain. Literature is discussed in-depth focused on experiments and study of the impact of various parameters of the geometry on crushing behavior testing the behaviors of such energy absorbers. An energy absorber might have multiple formations like square tubes, circular tube, or frustums of pyramids and cones. Studies on dynamics of crushing, modes of deformation, the capacity of energy-absorbance, the impact on the maximum, and mean crushing stress are the factors used to detect the crushing actions of the energy absorber. The present work aims to cover significant data from previous research of such parameters showing the behavior. Although the maximum of the studies conducted on the metallic energy absorbers, the main focus is on including the studies which made use of FML member, composite tube, FGT Tube, and the honeycomb plate in the form as a foldable encroachment energy absorber. Keywords? Foldable Encroachment Energy Absorber

Keywords: Foldable Encroachment energy absorber

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50 The effect of depression on the risk of pregnant women getting gestational diabetes in the first two trimesters

Paper ID V6I5-1189 · Pages 239-243 · Biology

Alisha Parikh, Student, B. D. Somani International School, Mumbai, Maharashtra

The paper is to explore the relationship between depression and how it affects the risk of women getting gestational diabetes during their first two trimesters of pregnancy. It has a background on both the key terms, data and graphs, data analysis, a conclusion as well as an evaluation and a bibliography citing my sources.

Keywords: Depression, Gestational Diabetes, First two trimesters

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51 Analyze the existing block chain technology and recent developments of cryptocurrencies

Paper ID V6I5-1151 · Pages 244-257 · Business And Management

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B. Nagaraju, Professor, University of Mysore, Mysore, Karnataka

The findings of our research are Cryptocurrencies are intangible, investors think that does not diminish the value of it. Most people would opt to invest in Cryptocurrencies to evade tax. Investors are expecting peer-to-peer transactions as it is easy to pay or transfer. Most of the investors think that Bitcoin is a Security and not a commodity. Investors say that investment in Cryptocurrencies shall affect traditional investments like equity and debt. Investors think that RBI should regulate Cryptocurrencies through stock exchanges. If Cryptocurrencies are legalized then there would be a revolution in the Indian market. Cryptocurrencies. Though people are ready to invest on Cryptocurrencies, they do not have complete knowledge about Block chain

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Technology. Most of the investors are aware of Cryptocurrencies, but they have not traded or mined Cryptocurrencies. Investors are expecting to hedge their risk on Bitcoin through futures contracts. People do not think Cryptocurrencies can be used as a payment method at retailer stores. Cryptocurrencies are non-government and investors like to trade, so the government should legalize cryptocurrencies. Cryptocurrencies should not be made as a tangible asset, else it would lose its existence and demand. Cryptocurrencies are liked more by investors when they are found by Indian companies, so Indian Cryptocurrencies should be traded. Cryptocurrencies should enable retail transactions for better use. Transactions in Cryptocurrencies are still considered unsafe as the prices are high volatility. The government of India has not officially authorized the use of Bitcoin despite its significant demand by the people. Indian investors are keen to invest in IndianCryptocurrencies. Though people are ready to invest in Cryptocurrencies, they do not have complete knowledge about Block chain technology. Most of the investors are aware of Cryptocurrencies, but they have not traded or mined Cryptocurrencies. Investors are expecting to hedge their risk on Bitcoin through futures contracts. People do not think Cryptocurrencies can be used as payment method at retailerstores.

Keywords: Cryptocurrencies Investors Black Chain Bitcoin

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52 Alternative usage of stone dust and ceramic waste and minimization of cost of construction materials

Paper ID V6I5-1223 · Pages 258-267 · Civil Engineering

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Observing the results, strength aspects of ceramic waste aggregate concrete is well within the permissible limits and ideal replacement level of ceramic waste is 20% and 40%.Water absorption of ceramic waste aggregate was 0.18% higher than that of natural aggregate (0.10%), due to the opening of pore structure during crushing and chiselling. Even after crushing and chiselling, few cracks were observed on surface of ceramic waste. For these reasons water absorption was little more than that of the natural aggregate. The 3 and 28 days compressive strength was found to range from 24.57-43.33N/mm2 for different mixes respectively. The above strength properties were found to compare closely with normal concrete. The proportion of 17% natural sand to 24% quarry dust produced higher values of compressive strength. For the same proportion of 17% natural sand and 24% quarry dust at 1:1.41:2.38 mix and 0.47 water/cement ratio, a logarithmic model has been developed for predicting the compressive strength of concrete between 0 and 28 days.

Keywords: Ceramic, Concrete, Solid Waste Disposal, Minimization

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53 Energy recovery from solid waste and sustainable leachate treatment at waste-processing units

Paper ID V6I5-1234 · Pages 268-279 · Environmental Engineering

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Bratati Pranamik, Student, Bangalore University, Bangalore, Karnataka

Bruhat Bengaluru Mahanagara Palike (BBMP) Bangalore to set up leachate treatment plants at two waste processing units - Kannahalli on Magadi Road and Chikkanagamangala near Anekal taluk. The treatment plants once set up, removes ammonia and other contaminants from the leachate, formed when the rainwater mixes with waste. We observed that "Leachate is dangerous and can deter vegetation on the land. BBMP officials took a decision to set up plants to get rid of leachate and save the soil which it gets mixed with. The treated effluent can be utilized in many ways like washing, industries among others." The civic agency will send the proposal to the Urban Development Department and once approved, it has taken up by the empowered SWM panel set up by the Palike.

Keywords: BBMP, Solid Waste, Leachate, Sustainability

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54 IoT (Internet of Things) in projects management

Paper ID V6I5-1277 · Pages 280-283 · Projects Management

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The research study is aiming at determining the impact of implementing IoT (Internet of Things) in project managements for reducing the risks as well as the costs of the project management. It is also aiming at focusing on characteristics related to the implementation of IoT in project management. The research question considered is reflecting what is the impact of IoT in projects management? The researcher had reviewed different articles from other researchers' works. With the analysis of the different article, the researcher is enabled to gaining detailed information related to the implementation of IoT in the projects management. In this section, the researcher had focused on the IoT enabling technologies and the technical regulatory characteristics present in the project management. These are seen to be considered as it is enabling the researcher is focusing on the benefits of the IoT. Apart from this, the implementation of IoT in the project management is discussed which is showing that projects can be carried out at a much faster speed. In this research, the researcher had considered secondary data analysis process. It is enabling the researcher in determining the minimum requirements needed for setting the IoT. It will be facilitating the researcher in determining the efficiency and the effectiveness of implementing IoT in project management. The identification of benefits gained by the organization with the implementation of IoT is also seen in this context. The characteristics of the IoT are considered which is enabling the project managers in focusing on learning about the project participants. This illustrates the projection of private data, confirmation of the accuracy of the data collected, and the creative thinking processes. With considering the increase in implementation of IoT, the importance of IoT in managing the devices and the projects carried out in different fields are analysed. The strengths and weaknesses are highlighted in the recommendation section. It is surrounding the improvement of

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the regulatory policies for increasing the effective organization of the project management processes. The IoT regulatory policy is seen to be playing an important role in executing the registration and documentation processes. Also in this section, the researcher had focused on the project management systems as well as the regulatory authority is playing an important role in improving the frameworks that should be followed. The regulatory authority is including the vital tasks that should be carried out for protecting the big data. In the end, it is discussed by the researcher in the conclusion section is that the acceleration of growth of IoT is devising increase in the pressure on the organization. It is leading to the development of technologies present in project management. The policy, framework and the guidelines should be focused in every area present under the IoT umbrella. At present time, the improvement in the project management carried out by the project managers is essential. It will be helping in removing the risks present in the project as well as the project monitoring and governance is essential

Keywords: IoT (Internet of things), IoT policy and project management.

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55 Disaster Management – Planning and Mitigation

Paper ID V6I5-1284 · Pages 284-288 · Civil Engineering

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It is quite widely recognized that in many third world countries, disaster mitigation programmes implemented by government agencies suffer from a series of defects and distortions. These include failure to address vulnerability, failure to involve people, and susceptibility to manipulation. The casual attitude towards the natural disasters whether recurrent ones or non-recurrent ones is an intricate manifestation of an internal hope people have about their lives and homes, combined with a lack of understanding of physical relations that control the severity, magnitude and intensity regarding the development of natural disasters. And hence, mitigation of natural disasters should properly be planned and monitored with the main objectives of better preparedness for meeting any situation in terms of relief, rescue and rehabilitation.

Keywords: Disaster Management

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56 Use of vulcanized rubber in concrete as a partial replacement of coarse aggregates

Paper ID V6I5-1245 · Pages 289-295 · Civil Engineering

Aejaz Ahmad Wani, Student, Alakh Prakash Goyal Shimla University, Shimla, Himachal Pradesh

One of the recommended solutions to solve this environmental problem is to incorporate rubber aggregates resulting from cutting worn tyres in the cement concretes .On this subject, several studies concerning the use of rubber aggregates resulting from crushing worn tyres were carried out. These research works showed that the benefits of associating rub- beer-concrete with high deformability and on the durability of these composites. Moreover, the benefit which we can gain from using the cement concretes for the roadways makes us think about multiplying the studies on the cement composites that incorporate rubber aggregates since the rigidity

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of the cement concretes can make it possible either to decrease the granular layer necessary to the asphalt road- way or to allow the use of less resistant concretes. This is the case with the use of concretes having a considerable part of rubber aggregates resulting from worn tyres. Even though there are many sustainable destinies for used tyres, the construction industry has shown little understanding of the potential of this waste. However, a number of promising possibilities have been emerging that have some weight in the market: asphalt, kinder- garden and sports area pavements, impact barriers on roads, and breakwaters. These applications prove how interesting it is to pursue new research fields that could show how end- of-life tyres can be reused competitively in the sector.

Keywords: Plant Leaf Detection, Image Processing, Feature Extraction

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57 Understanding the principles and finance of Islamic banking

Paper ID V6I5-1276 · Pages 296-299 · Finance (mba)

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Islamic banking is the quickest developing field in monetary administrations, and opportunity flourishes. The principle focal point of Islamic money is on straightforwardness, helpful endeavours, hazard sharing and moral contributing which pulls in a wide scope of the two Muslims and non-Muslims the same. Today, Islamic banking has gotten one of the quickest developing fragments of the worldwide banking furthermore, capital business sectors. Islamic banking is found in many pieces of the world. Islamic Banking has a tremendous market potential in India as India is the third biggest Muslim populated nation in the world. Islamic banking is an arrangement of saving money with Shariah laws, which is against the assortment or instalment of intrigue, ordinarily called 'riba'. Islamic law likewise disallows contributing in business that are viewed as unlawful or Haram. The essential rule of Islamic banking is in light of danger sharing, which is a part of exchange instead of danger move which is seen in ordinary banking. This paper endeavours to clarify the essential standards and different significant results of Islamic banking.

Keywords: Islamic Finance Banking and its Principles, Each Abbreviations and Explanation of Islam Finance in Detail

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58 Implant dentistry in the new scientific dental world-acceptance rates

Paper ID V6I5-1282 · Pages 300-301 · Dentistry

Harish Gurumurthy, Doctrate Degree Holder, Indepenent Researcher

In the new age of cutting edge technologies in engineering and medical science,The adaptation to the healthcare system of the recent developments has increased and seemingly high,patient attitudes towards acceptance have been discussed in relation to Implant Dentistry

Keywords: Implant, Osseo Integration, Skilled Semi-Skilled, Unskilled

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59 Biometric fingerprint enabled secure communication using Arduino and RF technology

Paper ID V6I5-1301 · Pages 302-304 · Electronics And Telecommunication Engineering

Rahul Anil Gaikwad, Independent Researcher
Akash Mishra, Independent Researcher

The undertaking is intended to send verified messages by utilizing an encryption from a PC console utilizing biometric scanner associated with the transmitting unit by means of RF technology. The message is recovered at the recipient end only when the approved personnel's fingerprint matches with the database utilized by the transmitter. In this manner, complete privacy is kept up in this correspondence procedure. The message composed in by the client is transmitted to the receiving end through RF transmitter. At the less than desirable end the RF beneficiary is coordinated with a fingerprint scanner and show framework. Client at accepting end can just view the message if the fingerprint matches. For instance, in military tasks, security is of foremost significance. So, when there is a requirement for sending any private message, one can type the message through a keypad/PC console interfaced with the framework including a fingerprint authentication, an Arduino NANO and a RF transmitting module.

Keywords: Arduino Nano, Rf Transmitting Module, Fingerprint And Privacy

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60 Monitoring and controlling electric car through IoT using NodeMCU

Paper ID V6I5-1237 · Pages 305-307 · Automation And Control Theory

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An application is a set of programs created for the end-user. This Project implements the functionality of an application that allows us to take control over the electric vehicle. Progress in humanity is spread in all areas. Electric vehicle has been providing a promising future for automobiles since so far no suitable alternatives are found. Switching to electric vehicles provides the advantage but the limitations of EV's should also be overcome in short duration. Usage of smartphones over EV's helps us to overcome the plethora of limitations. There are several important technologies and emerging trends in electric vehicle. This technology exchanges information about and for applications of the vehicle with a cloud system by use of IoT. It tends to make vehicles smarter and more intelligent, facilitating safe, efficient and comfortable driving. IoT-enabled infotainment systems are capable of providing information on navigation, telematics, a range of entertainment options, mobility tracking support connectivity with smartphones.

Keywords: Electric Vehicle, IoT, NodeMCU, Firebase, Sensor, Database

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61 Prospects of pilgrims tourism in Biswanath and Gohpur sub-division, Biswanath District, Assam

Paper ID V6I5-1287 · Pages 308-316 · Tourism

Hridaya Hazarika, Assistant Professor, Chaiduar College, Gohpur, Assam

Tourism is emerging as an important global industry in the 21st and for the last four decades or so a tourism revolution has been sweeping the world. As compared to other parts of our country, Assam is in a unique position with regard to the choices it can offer to a tourist, simply because of her diversity of culture, green natural beauty, and environment. Apart from living in the lap of nature, the State also has a rich heritage and offers the erudite and even the ordinary traveler a fascinating glimpse into the pages of Indian history and its mystical religious centers. Religion is an emotional and very much sensitive subject for men ever. Almost all the major religion of the world has its own mysteries, wonders, myth, and facts which restricts and controls men for a continuation of a better life and spiritual upliftment. Like many other parts of Assam, Gohpur and Biswanath sub-division in Sonitpur district are the two places of assimilation of diverse ethnic people with rich cultural life. In both the sub-divisions, there are a number of mystical religious places wherein lies the good prospect of pilgrims' tourism. Among these Biswanath Ghat, Gangmou Than, Kalyanee Than, Basudev Doul, Kam-Dewal, Bor-Kalika Than, and few others have the historical importance and deep religious faith for the local people. The main fact is that, until today, no significant planning approach has been taken up to develop these tourist destinations. It is because of the ignorance and negligence, these places of good prospects are still depriving of wide recognition and due importance. This paper attempts to draw the attention of the people of our country to enjoy the spiritual food and to invite interest and thereby make the places as source and centre for pilgrims tourism.

Keywords: Pilgrims Tourism, Mystical Religious Centers, Biswanath Ghat, Gangmou Than, Kalyanee Than, Basudev Doul, Kam-Dewal, Bor-Kalika Than.

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62 Design of soft storey in multi storey building with various combinations of beam and column using STADD Pro

Paper ID V6I5-1307 · Pages 317-321 · Structural Analysis

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Nowadays, building has provided by soft storey or weak storey. This feature is not suitable for building situated earthquake prone reason. In this study effect of soft storey in different height, different section of beam and columns while keeping their area constant. The determinations of percentage stiffness, maximum bending moment, maximum Shear force. The analysis is carried out by STAAD. Pro V8i. Here the present works (problem taken) are on a G+9 storied regular building. These buildings have the plan area of 15 meter x 15 meter with a soft storey height of 2.1 meter & 2.5 meter at first floor, and 4 meter constant height above first floor in all models. Depth of foundation is 2.5 meter, and the overall height of chosen building including depth of foundation are 40.6 meter & 41 meter. The analysis has done on computer with the help of STAAD. Pro V8i software using the parameters for the design as per the IS-1893- 2002-Part-1[B] for the Bhopal area and the

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post processing result obtained has summarized. It is concluded that from this study that the column section 200 mm x 450 mm is more suitable than, square column whose section is 300 mm x 300 mm, and a circular column whose diameter 340 mm. This is finding out on the basis of their area constant with different section.

Keywords: Soft Storey, Combination of Column, Combination of Beam, Seismic Analysis, Stiffness, Bending Moment, Shear Force.

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63 Study of irregular multi-storey RC frame subjected to seismic condition analysis with STAAD Pro V8i software

Paper ID V6I5-1308 · Pages 322-327 · Structural Analysis

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Juhi Nigam, Professor, Lakshmi Narain College of Technology, Bhopal, Madhya Pradesh

These analyses intend to the seismic response of different vertical irregularity structures. The study of this project is done by Response spectrum analysis (RSA) of vertically irregular RC structure. This study includes the modelling of regular and various irregular structure having area of 20 m X15 m and height of 3.2 m from each except ground floor for G+7 storey .The performance of this structure during this study seismic activity motions depends on the distribution of stiffness, strength, and mass in both the horizontal and vertical planes of the structure. The main aim of this work is comparative study of the stiffness of the structure by considering the three models in Regular Structure and three models in Plan irregular structure with different Vertical irregular structure. All models are analysed with dynamic earthquake loading for the Zones V .Result found from the response spectrum analysis that in irregular shaped structure displacements are more than that of regular shaped building. All building frames are modelled & analysed in software Staad. Pro CE. Various seismic responses like base shear, frequency, node displacement, etc. are obtained. The overall performance of regular building is found better than irregular building .The seismic performance of multi-storey regular building is determined by Response Spectrum analysis in STAAD Pro. Software.

Keywords: Irregular Frame, Stiffness, Spectrum Analysis, Modeling, Dynamic Earthquake Loading, Staad Pro

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64 Capital Punishment

Paper ID V6I5-1314 · Pages 328-330 · Law

Soumya Sharma, Kalinga Institute of Industrial Technology, Bhubaneswar, Odisha

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Capital punishment, also known as the death penalty, is a government-sanctioned practice whereby a person is put to death by the state as a punishment for a crime. The phrase 'capital punishment' comes from the Latin word for the head. A 'corporal' punishment is carried under due process of law. Capital punishment is a matter of active controversy in several countries and states, and positions can vary within a single political ideology or cultural region. Amnesty International holds that the death penalty breaches human rights, in particular the right to life and the right to live free from torture or cruel, inhuman, or degrading treatment or punishment.Both rights are protected under the Universal Declaration of Human Rights, adopted by the UN in 1948.

Keywords: Capital Punishment, Retribution

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65 A study on regulatory measures for investors protection in stock market

Paper ID V6I5-1291 · Pages 331-336 · Stock Market

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Dr. S. S. Narta, Professor, Himachal Pradesh University, Shimla, Himachal Pradesh

Investor’s protection involves various measures taken by regulatory mechanisms to protect the interest of investors from fraudulent and malpractices. Investor’s protection legislation is implemented under section 11(2) of SEBI Act, to take into consideration the interest of investors, the framework design for this purpose involves proper regulation on the activities performed by stock exchanges to carry out activities relating to investor awareness and training program. So it is the responsibility of the regulatory mechanisms to take various measures for the betterment of the interest of the investors. The emphasis under the present paper is given to issues relating to awareness about investors' rights and duties, opening up Mutual Funds business for private players, compulsory internal audit and secretarial audit for depository participants, and mandatory PAN for dealing in securities. Further, an attempt has been made to know the perception of investors towards these issues.

Keywords: Stock Exchanges, The Regulatory Mechanism, Investor’s Protection

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66 A comparative study of profitability performance of selected real estate companies after Real Estate Regulation Act, 2016

Paper ID V6I5-1315 · Pages 337-342 · Commerce

Ranjit Karsan Modhvadiya, Research Scholar, Sardar Patel University, Department of Business Studies, Anand, Gujarat

Real estate sector in India is witnessing a huge uprising in current period as it has become as one of the essential contributor in the growth of the Indian economy. The RERA Act 2016 helps to protect home buyers right as well as promote investment in real estate sector.

Keywords: RERA-2016, Ratio, ANOVA

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67 Abnormal driving behavior detection via Deep Learning Approaches

Paper ID V6I5-1318 · Pages 343-346 · Computer Science And Engineering

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During this period detection of abnormal driving is more important. It give safety to passengers and drivers in vehicle . In our proposed method deep learning methods used for abnormal driving behavior prediction. Deep learning classification methods are more applicable of various fields. The applications are computer vision, speech finding, language processing, audio identification, medical image analysis, bioinformatics and self driving cars. Our simplified method we use three deep learning methods such as CNN, Deep Residual Network and Visualized Geometric Group16. The CNN extract high level features such as hidden object in an image and doesn’t need hand designed features. For the purpose we use one dataset that contain 22,424 color frames (images).In the existing system that use novel deep learning fusion methods to detect abnormal driving behavior and the accuracy of that dataset is 82%. Our proposed method revealed an accuracy 87.44%. So new method more better than the existing method.

Keywords: Driving Behavior Prediction, Deep Learning

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68 Correlation between Wii Fit balance and conventional balance in Parkinson

Paper ID V6I5-1327 · Pages 347-351 · Physiotherapy

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Dr. Ajeet Kumar Sharan, Principal, Jaipur Physiotherapy Collage, Khorameena, Rajasthan

Background: Parkinson disease (PD) is a progressive neurodegenerative movement disorder caused by a lack of dopamine production in the substantianigra. The cardinal features of this disorder include bradykinesia, gait disturbance, rigidity, and tremors. Method: A Randomized control trial was conducted of the patients consulted to SKH & diagnosed with Parkinson's disease. Selection of 120 patients based on the criteria and informed consent was taken from the participants and divided as Experimental group & control group. Pre and Post Evaluation of patient was done with BBS and UPDRS after 2weeks. Result: The mean difference of BBS in conventional group was 3.633±3.16 whereas in Wii Fit group was 5.05±3.16 To compare the mean difference between two groups, Independent t-test was applied and its p-value was obtained. There was statistically significant difference found between these two groups (P value 0.016). The mean difference of UPDRS in conventional group was -2.63±2.66 whereas in Wii Fit group was -4.53±3.33 To compare the mean difference between two groups, Independent t-test was applied and its p-value was obtained. There was statistically significant difference was found between these two groups (P value 0.001). Conclusion: Both the treatment method were effective in Improving balance in Parkinson’s disease but the effect of Wii fit balance training is more in comparison to Conventional balance training.

Keywords: Wii Fit Balance Training, BBS, UPDRS

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69 Auto UI Code Generation using AI

Paper ID V6I5-1320 · Pages 352-355 · Computer Science

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HTML is extremely fun to write with, it is very easy to learn and therefore gives the power to create any website design in the world! But sometimes designing a web page and to make it look attractive is quite boring. For some people, web designing can be a little daunting, where they would be able to get the functionalities right but not be able to make it look pretty. This is where the system ‘Auto UI code generation using AI’ can be used where the user could physically draw the user interface he wishes to display and the system could intelligently generate the same on an actual visual screen and also provide the HTML code for it.

Keywords: Artificial Intelligence, HTML, Website design, User interface, Intelligently generated, Handwritten wireframe, Auto UI

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70 Gandhian philosophy: Relevance in the contemporary world (Ethics and Ethics through Gandhism)

Paper ID V6I5-1221 · Pages 356-358 · Philosophy

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Mahatma Gandhi was a free-spirited Karmayogi and a true man in true sense. Gandhi’s has acquired a unique place in the proud congregation of those great teachers and preachers who have given a new light to the field of education. An unbiased study of Gandhi's ideas related to education and morality proves that these ideas are the starting point of education theory and practice. Gandhi’s considered character-building the goal of all knowledge. They call a citizen with the high moral character the power of the nation. Therefore, firstly the goal of education should be to develop morality. Gandhi’s used to emphasize the purity of the means for achieving the goal. In his view, developing the best character can be useful for the development of the country. Their influence has not only been limited to India but also read on other countries. Today, the whole world is established and marching towards a society without class and all are eager to enter the wide spectrum of religion. Many of his rules apply worldwide and they can never be outdated. His rule of non-violence was as relevant to India as it is for the rest of the world even today, for which the whole world conference and agreements etc. are trying in some form. The morality that Gandhi’s wanted to explain to the world was humanity. He insisted on a human being to become human. Gandhi's ethics is going on even after 150 years of his birth because his philosophical thought is based on the ground of behavior. The essence of his life can be understood in 5 great words Truth, Non-violence, Satyagraha, Fearlessness and God.

Keywords: Non-Violence, Truth, Satyagraha, Brahmacharya, Taste, Asthey/Renunciation, Fearless, Untouchability Prevention, Sarvodaya, Physical Labor, All Religions Equanimity, Indigenous

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71 A study on demographic parameters sex ratio and literacy rate of scheduled caste people of Maharashtra : Census-2011 statistical approach

Paper ID V6I5-1279 · Pages 359-363 · Demographic Research

Shubhangi Sutar, Research Scholar, Shivaji University, Kolhapur, Maharashtra

Caste is an important factor in Indian social system. From ancient times, the caste is a factor which is considered a standard for ascertaining identity of each person. The nature of social, cultural, economic and political is decided on the basis of caste system. Hence, caste system is an undivided factor of Indian social structure and it is the basis of Indian social structure.. Over the time, Varna system and caste system were generated in India and Indian society got blocked in Varna and caste system. The constitution of India is enriched with several provisions for schedule caste and schedule tribes to safeguard and promote their cultural, social, educational, economic and political interests in order to bring them in mainstream of the nation. This paper aims to study the demographic parameters sex ratio and literacy rate in SC's of Maharashtra state of India. In Maharashtra there are total 59 Scheduled caste as per census-2011.Findings of this study was Mahar caste recorded higher population as compare with other. SC's sex ratio become higher than state sex ratio. But the SC's literacy rate 69.94 was much lower than state literacy rate which is 82.34. The Female situation of SC's community was very critical which is shows that because of female and in SC's they can not take any education .These community needs more educational policies from government to uplift there social and economical condition. Spearman rank correlation coefficient shows that there is strong relationship between sex ratio and literacy rate.

Keywords: Population of SC's, Sex Ratio, Literacy Rate, Spearman Rank

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72 Review on bio-signal processing software packages

Paper ID V6I5-1286 · Pages 364-369 · Computer Science

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Bio-signal processing and analysis holds great significance in present day medical practice. In recent years, many processing techniques and different algorithms have been developed to help doctors to find new information added in bio- signals which is not easily noticeable in the raw data and hence aid in diagnosis of any ailments. Bio-signal processing is a rapidly evolving field with new processing technique coming out every other day which in turn makes it more and more difficult to be up to date. Signals format, algorithms implementation and comparison, artifacts and various other aspects make the learning of this field a long-drawn process, and in many situations plenty of software components are required to process or visualize bio-signals. In this paper we discuss open sourced, bio signal processing software packages that offer a variety of bio-signal processing algorithms: domain transforms, filtering, wave detection, basic operators, exchange

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signals format readily in their modules. The objective of this paper is to become an easily referable tool shed that discusses various options of software packages in brief for medical practice or biomedical educational purposes and to evaluate its compatibility with any architecture.

Keywords: Bio-signal Processing, Software Packages, BioSPPy, Ecgkit, Kubios HRV, WFDB Package, BioSig

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73 A study on effectiveness of green human resource management process in private sector

Paper ID V6I5-1332 · Pages 370-372 · Management

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Dr.Tripti Chakrabarti, Dean-Department of Basic Science, Techno India University, West Bengal, Kolkata, West Bengal

Through the world, we are affecting to industrial development, which rises, business invention, technology and extra business activities. There is an excessive agreement of growth in the accomplishment of environmental management systems by the private sector. This is the high time, when individuals need to practice Green applies to accept the environment and furthermost significant source of the earth i.e. Human. Greening employees since topmost to bottommost is not a calm job, but specialist environmental strategy and executing Green human resource management (GHRM) practices essentially has produced a positive result toward the Green environment. The paper emphases on the GHRM, several Green Human Resource Practices and clarifies the role of green human resource procedure in profitable green. At the present time, there are argument and hesitation related to how green management process can be executed successfully among the employees of the association. In conclusion, the paper proposes about societal consequence of Green human resource process for green private sector.

Keywords: Green Human Resources Management, Environment, GHRM Process

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74 Development of empirical correlation for predicting in-situ pavement layer moduli as an alternative to backcalculation analysis

Paper ID V6I5-1331 · Pages 373-380 · Civil Engineering

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Sunny Deol G., Assistant Professor, National Institute of Technology, Raipur, Chhattisgarh

Pavement backcalculation process is mathematically an indeed complex inverse problem that can be approached deterministically or probabilistically for the realistic estimation of pavement layer moduli using nondestructive testing devices. Non- destructive devices like Falling Weight Deflectometer (FWD) and Lightweight deflectometer (LWD) are mostly used in pavement evaluation and construction practices. LWD device is frequently used as a quality control and quality assurance for unbound layers. In this paper, an attempt has been made to develop a simple empirical equation for estimating three layers thin asphalt pavement (≤ 1.96 inches, 50 mm) moduli values using 33.06 lbs (15 kg) and 44.09lbs (20 kg) falling weight

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with radial geophones deflections data. An empirical equation was developed using multi linear regression analysis after computing the LWD surface deflections for a large number of pavement structures loaded over (300 mm) 12-inch diameter contact area. Developed empirical equations were validated using conventional KGPBACK, Genetic Algorithm based backcalculation software. The pavement layer moduli predicted from the developed correlations were compared with the KGPBACK results. Results depicts that the variation of layer moduli values are minimal. Thus an empirical equation can be used for estimating pavement layer moduli by eliminating the use of backcalulation software for estimating layer moduli for low volume roads during the structural evaluation process.

Keywords: Light Weight Deflectometer, Unbound Layers, Layer Moduli, Backcalculation

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75 Indian women need equality or empowerment

Paper ID V6I5-1267 · Pages 381-386 · Social Aspects

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India ranks among the few top mot unsafe countries for women. To fight these problems, women and people initiated movements. The paper talks about the people and how in the need of equality, empowerment was lost.

Keywords: Indian, Women, Feminism, Women Empowerment, Inequality, Crimes

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76 A short review on recent technologies of food packaging

Paper ID V6I5-1296 · Pages 387-389 · Food Processing And Engineering

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The present article focuses on the active and intelligent packaging of fresh foods in food industry. There are several packaging techniques for storing fresh foods in the market and several new technologies developed with or without carbon dioxide absorbers which improves the quality and therefore increases the shelf life of the product. Fruit quality has been checked by using different spectroscopy techniques. Various intelligent packages have been developed which improves the freshness of the food. Nanotechnology methods are useful for detecting the spoilage of the food such as inks, adhesives and usage of oxide barriers. Hence these are useful for increasing the safety of the food to the consumer. These also include toxic free and edible packaging material. New methods such as 3mtm monitor in the future can increase the development of the packaging in the food sector.

Keywords: Intelligent Packaging, Carbon Dioxide Absorbers, Spectroscopy Techniques, Adhesives, Oxide Barriers

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77 Review on TIG welded stainless steel alloy

Paper ID V6I5-1334 · Pages 390-396 · Mechanical Engineering

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The TIG welding device is soldered to increase welding efficiency in Stainless Steel 304 (SS-304) by modifying various welding parameters. Effects on the strength and toughness of the weld joint of solding current, gas flow rate (CO2) and welding speed were examined. Optical microscopic analysis on the welding zone was performed to determine the effect of soldering parameters on soldering efficiency. In order to understand the change in the mechanical features of a welded zone a micro-hardness value of the welded zone was measures on the cross section

Keywords: Tig Welding, Vicker Hardness Test, Tensile Test, Micro Structural Test, Voltage, Speed, Current, Stainless Steel Alloy-304.

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78 Analysis of variation of hardness in MIG welded stainless steel alloy

Paper ID V6I5-1336 · Pages 397-401 · Mechanical Engineering

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AISI 202 SS (stainless steel) has similar mechanical property as compare to AISI 304 SS grade, but its ability to resist corrosion is somewhat less as compare to AISI 304 SS grade in chloride environment. But it is very inexpensive so we can use it in indoor applications like indoor fabrication, automobile trim and application where atmosphere is not a considerable factor. But there is very less research reported on welding of AISI 202 SS grade. In order to find out the weakest locations of the joints and determine the optimum MIG welding parameters, this present work aims to demonstrate its MIG weldability and the emphasis is placed on the relations of the tensile properties and hardness to the welding parameters

Keywords: MIG, Weldinf, SS-202, Aluminium

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79 Review on MIG welded stainless steel alloy

Paper ID V6I5-1347 · Pages 402-410 · Mechanical Engineering

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Vikram Thakur, Assitant Professor, Sirda Institute of Engineering and Technology, Sundernagar, Himachal Pradesh

MIG welding Arc voltage control, the energy source is given and the wire-feed unit delivers speed control of the welding wire, in MIG it is equivalent to the welding process. Many traditional wire feed systems control the wire feed speed through the thyristor control PCB and the DC motor to offer control of the Armature volts and therefore the RPM of the engine. The wire feed motor spindle is equipped with a feed roller and then additional pressure roller, the variable spring is placed to gently catch the wire and force it up to a MIG torch length

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Keywords: MIG Welding, Vicker Hardness Test, Tensile Test

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80 Analysis of variation of hardness in TIG welded stainless steel alloy

Paper ID V6I5-1337 · Pages 411-414 · Mechanical Engineering

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AISI 304 SS (stainless steel) has similar mechanical property as compare to AISI 304 SS grade, but its ability to resist corrosion is somewhat less as compare to AISI 304 SS grade in chloride environment. But it is very inexpensive so we can use it in indoor applications like indoor fabrication, automobile trim and application where atmosphere is not a considerable factor. But there is very less research reported on welding of AISI 304 SS grade. In order to find out the weakest locations of the joints and determine the optimum MIG welding parameters, this present work aims to demonstrate its MIG weldability and the emphasis is placed on the relations of the tensile properties and hardness to the welding parameters

Keywords: TIG , Welding, ss-304, Aluminium

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81 Analysis of geogrid reinforced pond ash embankment using finite element method

Paper ID V6I5-1244 · Pages 415-424 · Civil Engineering

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The Pond Ash sample was collected from the ash pond site of Raj ghat thermal power station, Delhi, soil was collected from NIT campus, Srinagar and the lime was procured from the open market in the form of quick lime. This lime was then mixed with pond ash, by weight (= 9%) (Gupta et al, 2013).Further, in the present work an experimental program was carried out to characterize the materials and strength tests were performed to study the behaviour of pond ash mixed with lime; the results shows that in the presence of moisture, pond ash chemically reacts with lime at ordinary temperature and forms cementations material which is attributed to the increase in strength of pond ash. Numerical analysis was performed using the FEM based software PHASE2 (Roc science). Results divulge that use of full length of geogrid covering whole width of embankment increases the critical strength reduction factor (SRF) of embankment at steeper slope inclination. Also, the application of either geogrids layers or pond ash-lime mix layer, results in safer designs in comparison to unreinforced pond ash embankment.

Keywords: Geogrid, Pond Ash, Geo Grid

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82 The treatment of the theme in the novels of Bharati Mukherjee

Paper ID V6I5-1362 · Pages 425-426 · Literature

Dr. Amrita Kumari, Research Scholar, Lalit Narayan Mithila University (LNMU), Darbhanga, Bihar

The present study and honest attempt to examine how in her novel as well as sort stories. Bharati Mukherjee has made a concerted effort to present the true image of immigrants of in the USA as well as Canada. She has shown convincingly through the portrayal of sensitive protagonist that all of them have to grapple with various prejudices of racism, sexism and various kind of exploitation and discrimination of the new countries.

Keywords: Bharati Mukherjee, Novels, Immigrant, America

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83 Prediction of a mammogram mass as benign or malignant

Paper ID V6I5-1342 · Pages 427-430 · Computer Science

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Sarojini Sharon R. K., Student, St. Joseph's Institute of Technology, Chennai, Tamil Nadu

This paper is about comparing several different supervised machine learning techniques to the “mammographic masses” public data set from the UCI repository, and see which one yields the highest accuracy as measured with K-Fold cross validation (K=10 A lot of needless pain and surgery occurs from the subsequent false positives of mammogram performance. If we can create a better way of understanding them through supervised machine learning, it will make many lives easier .We have applied Decision tree, Random forest, KNN, Naive Bayes, SVM, Logistic Regression and also neural network using Keras. The data was cleaned as many rows were contain missing data, and as there were erroneous data identifiable as outliers as well. Some techniques such as SVM that we have employed requires the input data to be normalized first. Many techniques also had "hyperparameters" that had to be tuned. So here we have approached a better way to make it even better by tuning its hyperparameters.

Keywords: Mammographic Mass, Hyperparameter, Machine Learning, Supervised Machine Learning

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84 Prominence of Sandalwood (white and red) handicraft in the interiors with respect to aromatherapy

Paper ID V6I5-1357 · Pages 431-437 · Architecture

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India being the hub for divine wooden handicrafts due to the rare plant species grown here like Santalum album (Sandalwood) and Pterocarpus santalinus (Red sanders) which come under tropical trees are the most valuable and sacred trees associated with the culture, tradition and medicine; Sandalwood’s treasured aroma is extracted from tree’s heartwood and also it is one of the finest natural materials for carving. Since ancient times the traditional way to extract the sandalwood paste is with the help of sacred rubbing stone and

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sandalwood smoke is by burning the incense sticks in sacred metal or mud burners for medicine and traditional rituals. Taking the concept from the traditional process of extracting; some of interior elements shall be created to spread the aroma of Santalum album into the interiors from the passages of traditional Jharokhas(stone oriel window) and Mashrabiya(wooden oriel window) on the other side creating interior elements like 3d layered wall murals, side brackets, wall brackets, carved pelmets, etc. with Pterocarpus santalinus. As it is the most costly wood, 3d layered wall murals are designed with ombre effect instead of solid wall murals by using less material for a larger space which makes it cost effective and gives an insight for sustainability and these most exquisite sandalwood carvings are made by skilled craftsman cast in situ to prevent damage due to transport.

Keywords: Santalum Album, Pterocarpus Santalinus, Aroma, Carving, Incense, Oriel Window, Craftsman

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85 Self-balancing of a Two wheeler using Gyroscopic effect

Paper ID V6I5-1358 · Pages 438-443 · Mechatronics

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In this day and age automation has become more of a necessity than a luxury. Today despite of having a number of preventive safety measures to avoid road accident by two wheelers according to the surveys two wheeler lead in the number of road accidents. The need for a self-stabilizing system for two wheelers is on high demand among the customers. This paper determines a method to develop a self-balancing bike using gyroscopic effect. Gyroscopic effects finds its application in stabilizing systems for sectors like Military's rocket guidance systems, aeronautics and aerospace industries, ships etc. We have incorporated this principle in our two wheeler model. In our current model we have used Inertial Measurement Unit(IMU), Encoder and servo motors, Momentum wheel to generate a counter torque to balance the roll in the two wheeler. The 3D model was designed using CAD modelling software and code was generated in the Arduino software. Designing and fabrication of the two wheeler was completed and was tested for different tilt angle subjected to varying rotational speed of momentum wheel to counter balance and stabilize itself.

Keywords: Self-Balancing, Gyroscope, Gyroscopic Effect, Inertial Measurement Unit

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86 Fuzzy logic technique applied in tuning of PID controller to control speed of DC motor

Paper ID V6I5-1366 · Pages 444-452 · Electrical Engineering

Dr. Abhishek Kumar, Assistant Professor, RTC Institute of Technology, Anandi, Jharkhand

This paper give solution of tuning technique of PID (Proportional integral derivative) controller by using fuzzy logic technique applied in speed control of DC motor. The proportional, integral and derivate (KP, KI, KD) gains of the PID controller are regulate according to fuzzy logic technique. The Fuzzy logic Proportional integral derivative controller (FLPIDC) is designed according to fuzzy rules. Twenty five self tuning rules are programmed for PID controller. Two inputs are applied to PID controller one for speed error actual speed and

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the second is rate of change in speed error. The Parameter of PID controllers are used to control the speed of the DC Motor. The MATLAB model for speed control of DC motor using fuzzy logic is easy and less calculation required. The results proof that the designed self-tuned PID controller perform optimum speed control of DC motor, compared to conventional PID controller.

Keywords: Fuzzy Logic, PID Controller, DC, Membership Function, FLPIDC

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87 Explaining Global warming through Quantum Mechanics

Paper ID V6I5-1359 · Pages 453-457 · Physics

Aditya Iyer, Independent Researcher
Mitali Arun, Independent Researcher

The paper goes over climate change and global warming followed by a quantum mechanical approach to explain global warming. By using the principles of the radiative theory and spectroscopic data from the HITRAN database for greenhouse gases along with data from the AIRS satellite, we were able to claim that the principles of radiative theory and quantum mechanics can indeed be used to explain climate change.

Keywords: Quantum Mechanics, Climate Change, Spectroscopy, Environment, Global Warming

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88 Assessment of metal contamination by using pollution indices in groundwater sources that used for drinking purpose in Olpad taluka, surat, India

Paper ID V6I5-1329 · Pages 458-464 · Water Pollution

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Kapila Manoj, Professor and Head, Veer Narmad South Gujarat University, Surat, Gujarat

The present study was conducted to judge pollution situation and evaluates their sources and distribution of Heavy Metals in the ground water sources of Olpad taluka, Surat, Gujarat, India. Ground water sources such as hand pump bore well, tube well and open well are used for drinking purpose in different villages of Olpad taluka. Heavy metal pollution index (HPI), Heavy Metal Evaluation Index (HEI) and Degree of Contamination (Cd) is representing a quality of water in terms of index numbers that represents the heavy metal load in the ground water sources. Monthly sampling was done from seven sampling sites (Feb' 2015 to July' 2015). Heavy metals concentration in water samples were measured by following standard method of APHA and analysed by Atomic Absorption Spectrophotometer. Heavy metals like, Cu, Ni, Zn, Fe, Mn, Cd, Pb and Cr were analysed from monthly collected samples. Heavy metal affects the health in a wide range if it is present above the permissible limit. Based on calculated results of HPI, HEI and Cd it was found that the water was contaminated with metals.

Keywords: Heavy metals, Heavy Metal Pollution Index, Heavy Metal Evaluation Index, Degree of Contamination, Agricultural activities, Pollution

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89 A disease prediction system based on Machine Learning algorithms and ensembles using real-time data gathered through wearable medical sensors

Paper ID V6I5-1339 · Pages 465-470 · Computer Science Engineering

Sameer Kulkarni, Independent Researcher
Gargi Hartalkar, Independent Researcher
Bhumika Mahajan, Independent Researcher
Pranav Jawaji, Independent Researcher

Even with an Annual expenditure $ 8.2 billion (F.Y. 2018-19), Indian healthcare system is far from being affordable and accessible. While the economic development has been gaining momentum since the last decade, India needs major reforms in existing healthcare system. Technology has an important role to play in streamlining the health infrastructure. A Disease prediction system has been proposed to address various deficiencies and provide affordable, readily-available and cost-effective healthcare. The proposed system can effectively predict life threatening diseases like Diabetes and Heart Disease. The system has been implemented by using Machine Learning Algorithms and enhanced to be more accurate than the existing systems. The system is backed by robust Machine Learning Algorithms and ensembles that will predict presence/absence of the diseases accurately. Accurate analysis of medical data benefits early disease detection, patient care and community services. To overcome the difficulty of incomplete data, the system uses Wearable Medical Sensors to gather Real-time data and make prediction based on the collected data. Presently, we demonstrate the system for two diseases but it can be scaled for tackling more diseases. The Disease Prediction system will not only reduce the burden on existing healthcare and diagnosis system but also provide personalized medication.

Keywords: Clinical Decision Support System, Machine Learning Algorithms, Wearable Medical Sensors

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90 Comparative analysis of tuning technique of fuzzy logic PID controllers and classical PID controllers over armature control DC motor

Paper ID V6I5-1367 · Pages 471-480 · Electrical Engineering

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Arpana Kumari, Assistant Professor, Ex-faculty: Institute of Management Studies, Ghaziabad, Uttar Pradesh
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This paper give solution of tuning technique of PID (Proportional integral derivative) controller by using Ziegler-Nichols and fuzzy logic technique applied in speed control of DC motor. The proportional, integral and derivate (KP, KI, KD) gains of the PID controller are regulate according to fuzzy logic technique. The Fuzzy logic Proportional integral derivative FLPID controller is designed according to fuzzy rules. Twenty five self tuning rules are programmed for PID controller. Two inputs are applied to PID controller one for speed error actual speed and the second is rate of change in speed error. The Parameter of PID controllers are used to control the speed of the DC Motor. The MATLAB model for speed control of DC motor using fuzzy logic is easy and less calculation required. The results proof that the designed self-tuned PID controller perform optimum speed control of DC motor, and compared the FLPID conventional PID controller.

Keywords: Fuzzy logic, PID controller, DC, membership function, FLPIDC

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91 Peoples' participation in Swachh Bharat Abhiyan of Yadgir district

Paper ID V6I5-1333 · Pages 481-487 · Economics

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Swachh Bharat Mission was launched by our Hon. Prime Minister, Shri Narendra Modi on October 2, 2014 with Mahatma Gandhi as the inspiration, to create a clean India of his dream by 2019, on his 150th birth anniversary. The basic objective is to create sanitation facilities for all and eliminate completely the unhealthy practice of open defecation. This study is conducted to assess knowledge, perception and practices regarding Swachh Bharat Abhiyan among rural people.

Keywords: Swachh Bharat Abhiyan, Hygiene, Solid Waste, Hand Washing, & Defecation Etc.

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92 Flaw detection in low alloy steels butter welds using advanced technique for productivity improvement

Paper ID V6I5-1346 · Pages 488-492 · Mechanical Engineering

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The fast changing economic conditions customer demand for high quality product, product variety and reduced lead–time etc. had a major impact on manufacturing industries to improve the quality performance rate. An analysis being performed using advanced technology Phased Array Ultrasonic Testing on fusion welded low alloy steels to extract flaws from nondestructive testing (NDT). Our goal is to extend the previous study and enable us to detect flaws with images successfully so that the usability of our technique is extended and verified in experiment. A number of defects are being observed in the welding process and can be differentiate very easily. Defects in welding may be found out in two methods, i.e. by Radiographic Tests and by Phased Array Ultrasonic Tests. This paper discusses the feasibility of advanced NDT technique and other related methods.

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Keywords: Low Alloy Steels, Phased Array Ultrasonic Testing, TOFD, NDT

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93 Speed control of field controlled DC servo motor by using tuning technique of fuzzy logic PID controllers and classical PID controllers and comparative analysis

Paper ID V6I5-1369 · Pages 493-501 · Electrical Engineering

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This paper give solution of tuning technique of PID (Proportional integral derivative) controller by using Ziegler-Nichols and fuzzy logic technique applied in speed control of field controlled DC servomotor. The proportional, integral and derivate (KP, KI, KD) gains of the PID controller are regulate according to fuzzy logic technique. The Fuzzy logic Proportional integral derivative FLPID controller is designed according to fuzzy rules. Twenty five self tuning rules are programmed for PID controller. Two inputs are applied to PID controller one for speed error actual speed and the second is rate of change in speed error. The Parameter of PID controllers are used to control the speed of the DC Motor. The MATLAB model for speed control of DC motor using fuzzy logic is easy and less calculation required. The results proof that the designed self-tuned PID controller perform optimum speed control of DC motor, and compared the FLPID conventional PID controller.

Keywords: Fuzzy logic, PID controller, DC motor, membership function, FLPIDC

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94 A methodology towards securing a web portal using XML encryption

Paper ID V6I5-1328 · Pages 502-506 · Computer Science

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An online shopping system permits a costumer to submit online orders for items from a store . A Web portal acts as a gateway to the internet. Web portals provide a single point of access to a variety of content and core services, and offer a single sign-on point. The main challenge for online shopping portals is to provide security for the transactions involved. Customers, usually need to enter their crucial information like credit cardnumber, debit card number etc. to buy products. Today most of the shopping portals use Secured Socket Layer(SSL) to transfer crucial data .This system was capable of providing good end-to-end security. But, it is unableto encrypt only a small part of the stored information; so a large cipher text is generated. To overcome thisissue , new system is proposed here, which makes use of XML Encryption to provide security for transactions bygenerating a compact cipher text, which is transferred over the net as an XML document file. In this paper workthe development of secured web portal is undertaken. Online shopping portals are new way for marketinghence must be designed in a creative but simple manner so that it is easy for the users to transact from it.There is need to analyse this new player by applying XML encryption which provides end-to-end security forapplications that require secure exchange of structured data.

Keywords: Crucial , Secured Socket Layer

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95 Performance Improvement of Grid-Integrated Solar PV System under Uncertainties and non-linearities

Paper ID V6I5-1356 · Pages 507-511 · Power System

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The various power quality (PQ) issues in a grid connected solar system arises because of intermittent nature of solar and uncertain loads at the consumer end. The reasons of uncertainties are; nonlinearity, disturbances or unbalanced loads. A three-phase grid-integrated solar photovoltaic (GISPV) system incorporating a control technique based on a modified partial integral (PI) based inverter control algorithm. The controller is so designed so as to obtain the streamline overall performance of the GISPV under adverse conditions.

Keywords: Grid-integrated Solar Photovoltaic, Photo Voltaic (PVP), Phase Lock Loop, and feed forward control loop.

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96 Program Management Office (PMO) in UAE

Paper ID V6I5-1312 · Pages 512-520 · Project Management

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Managing projects can be a challenging task due to the number of activities it has and managing a group of projects can also be a harder task, and here comes the projects or program management office role. The importance of having a PMO in any organization relies on the benefits it provides to organizations such as visibility, alignment, maximizing project benefits, and enhancing control over projects through governance (Misner, 2008). The goal of conducting this research is to understand the PMO role in the government entities

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and highlight the challenges occurring in organizations and provide suggestions to enhance its benefits. This paper will discuss PMO definition, its advantages, its roles and types, PMO in government organizations, its challenges, and steps to strengthen its role and illustrate data gathered from interviews which will be analyzed based on literature review.

Keywords: PMO, Government, Challenges, Enablers, program management

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97 A text mining based automated BIM model data checking system

Paper ID V6I5-1300 · Pages 521-524 · Data Analytics

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Building Information Modelling (BIM) has been widely used in the construction industry describing geometry of the building, spatial relationships and geographic information, as well as the quantities and properties of BIM objects and their properties. With large amounts of data exported from building information models, BIM data checking usually costs large amounts of man-hours to guarantee BIM model quality. In order to improve accuracy and efficiency for model data checking, applying machine learning techniques is highly expected. The machine learning algorithms can be used by combining data from many buildings, the characteristics, and location of flats to automatically detect flaws of building design, or even the likelihood of construction delays. Anomaly detection is useful to pinpoint modelling errors. In this project, semantic natural language processing technologies embedded with a machine leaning engine is developed to realize (1) automated object and property information retrieve from the massive BIM mode data, (2) similar objects recognition and naming consistence checking, and (3) automated BIM model data completeness and accuracy checking. The machine learning engine is wrapped by a dashboard-based user interface to facilitate manual object/property checking or batch data checking. The specially designed modules of the machine learning engine are allowed to be customized to support different construction regulatory requirements.

Keywords: BIM, Text Mining, BIM Data Checking, Machine Learning And Smart Decision-Making

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98 Efficiently diagnosing breast cancer detection from histological images by combining FCN and BI LSTM model

Paper ID V6I5-1340 · Pages 525-530 · Deep Learning

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Bosom disease (BC) is one of the most continuous kinds of malignancy that grown-up females experience the ill effects of around the world. Numerous BC patients face irreversible conditions and even passing because of late determination and treatment. Thusly, early BC analysis frameworks dependent on obsessive bosom symbolism have been sought after in ongoing years. In this paper, we acquaint an end-with end model dependent on completely convolutional network (FCN) and bidirectional long momentary memory (Bi-LSTM) for

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BC discovery. FCN is utilized as an encoder for elevated level element extraction. Yield of the FCN is gone to a one-dimensional arrangement by the smooth layer and took care of into the Bi-LSTM's information. This technique guarantees that high-goal pictures are utilized as immediate contribution to the model. We directed our investigations on the Break his information base, which is openly accessible at http://web.inf.ufpr.br/vri/bosom malignant growth information base. So as to assess the execution of the proposed strategy, the exactness metric was utilized by considering the five-overlap cross validation procedure. Execution of the proposed technique was discovered to be in a way that is better than already announced outcomes.

Keywords: FCN, Bosom Disease, Medical, Bi-LSTM, Python, Image Segmentation, Encoder, His topological Images

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99 A comparative study of psychological well-being between working and non-working mothers

Paper ID V6I5-1365 · Pages 531-533 · Psychology

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Nowadays, world is equally ruled by men as well as women in almost all aspects. Working mothers are more effective in managing both work and family. Psychological well-being of working mothers has gained a significant amount of interest among researchers. The following study aimed at digging out the difference between working mothers and non working mothers on Psychological Well-being. The total sample for this research was 40 women comprising of 20 working and 20 non working women who are mothers. The age range of the participants was 35 to 55 yrs. For assessment, Ryff's Psychological Well-Being scale was used. The obtained scores were analysed by One Independent t-Test on SPSS software. As a result, it was found the the hypothesis, Working mothers will be high on psychological well-being as compared to non working mothers, is rejected.

Keywords: Psychological Well-Being, Working Mothers, Non-Working Mothers

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100 Challenges in development and implementation of Indian smart city mission

Paper ID V6I5-1373 · Pages 534-540 · Infrastructure Engineering

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The rapid rise in India's urban population is mainly in search of employment and education. Due to this rapid urbanization, the government is suppressed to concentrate on solutions for certain problems like overcrowding, pollution, resource constraints, needs for the development of infrastructure and restoration of ageing Infrastructure. As to meet these demand and problems, India has stepped into developing and constructing major cities as Smart cities in 2015 as 'National Smart Cities Mission' under Union Ministry of Urban Development. It is an initiative to make these cities friendly and sustainable to citizens as well as to nature. Some major barriers in developing a smart city in India are financing or allocation of budget, availability of resources, planning with most advanced techniques and making people used to it, rehabilitation and

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resettlement of huge population. Indian cities are already well-developed cities when compared to others, but through proper planning and implementation, it can also be made into Best smart cities in the world. This paper focuses on the Idea of Smart City, concept of smart city mission of India, its challenges and implementation. And also about the Smart city solutions and initiatives in some of the major smart cities of the world.

Keywords: Smart Cities, Strategy, Barriers, Indian Smart City Mission, Learning, Urbanization

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101 Immediate effect of alternate douche to whole body on autonomic and respiratory variables in healthy volunteers

Paper ID V6I5-1375 · Pages 541-544 · Alternative Medicine

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Alternate douche is the one of the therapeutic treatment in naturopathy. Douche is the most satisfactory, flexible and adaptable tonic in hydrotherapy it may be employed at all temperatures like hot, cold and alternative and degrees of pressure can also be varied depending to the conditions. The present study aims to evaluate the physiological effects of alternate douche to whole body on healthy individuals. Totally 30 volunteers were selected. (Group 1)On Day 1 volunteers were given alternate douche intervention for 20 minutes and (Group 2)on day 2 the same volunteers are allowed to stand with their feet together, hands placed by the side of the body, palms facing inward in same room for 20 minutes. Assessments were made for both the groups before and after intervention. The assessments included were blood pressure (BP), heart rate (HR), heart rate variability (HRV), and respiratory rate (RR). Statistical analysis is done by using software SPSS (Statistical Package for the Social Sciences). The level of statistical significance was determined with $p \leq 0.05$. On comparison between groups shows significant difference in HR (p

Keywords: Alternate Douche, Heart Rate Variability, Healthy Volunteers

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102 Effect of heat therapies on pain and disability in patients with Osteoarthritis of knee joint

Paper ID V6I5-1376 · Pages 545-548 · Alternative Medicine - Naturopathy

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Osteoarthritis (OA) of knee is most common form of arthritis and is a major cause of functional disability

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especially in elderly patients due to pain. Hot mustard and wax therapy are two modalities employed in management of pain. Aim: To compare the effect of hot mustard application and wax therapy on pain and disability in patients with osteoarthritis of knee. Methods and Material: The study adopts a comparative trial design. A total of sixty subjects of age 50-65 years were recruited . They were assigned to either group One (hot mustard application) or group Two (wax therapy). Every subject were assessed for pain and disability at baseline and following ten days. Results: Pre and post data was analysed by Wilcoxon signed rank test which showed difference in VAS (P

Keywords: Osteoarthritis of Knee, Hot Mustard, Wax.

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103 Financial literacy among the youth- A conceptual review

Paper ID V6I5-1257 · Pages 549-552 · Management

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Financial literacy is the sum total of various skills, aptitudes and abilities required to make sense of financial phenomena & take sound financial decisions. It is a very important concept in the present times. The world that we witness today is a much different one than the one occupied by our elders. Even though many things have managed to remain the same, many more have changed rapidly. Accompanying these rapid changes are the growing complexity in the way in which thigs work, for eg; the financial system. Just consider the following; 1. More and more youngsters are conscious about considering retirement planning since early on, as they know they have to fend for themselves past their retirement age. 2. More than ever before, youngsters today need to think of their income as a limited economic resource, which has unlimited demands, many alternative uses, considerable opportunity cost & their spending behaviour can have long term, irrevocable consequences. 3. We, as a country, over the past decade are slowly but surely shifting from a nation of savers to that of spenders, with more and more youngsters being comfortable with credit cards & term loans for acquiring a variety of consumer goods. 4. The financial system, too, has never been more flabbergasting, with a plethora of investment & insurance products (who often intermingle) to choose from & advisors of all classes & pedigree vying for a chance to manage other's money for them, for a fee, ofcourse. 5. Easy access to & low barriers in financial markets of all types, terms, sizes & shapes have attracted many youngsters to take part in them, irrespective of these youngsters' understanding thereof & expertise therein. It is very easy to fumble and make mistakes in such a scenario, if one is not well equipped with the necessary skills and abilities to make sense of & then harness all the data & information, often easily & abundantly available, to make sound financial decisions. Often, such mistakes have been known to have long term, even permanent, ramifications. It is evident from the large number of youngsters and even middle aged people still struggling pay off their student loan arrears & make sense of their burgeoning credit card debt. Considering this, it probably wouldn't be an exaggeration to consider financial literacy a valuable life skill. Measuring relevant parameters is the first logical step towards solving a problem. In order to understand whether the youngsters of today possess necessary skills, aptitudes & abilities to make sound financial decisions, we first need to measure their current level of financial literacy & identify the various determinants & influencing factors in financial decision-making process, as engaged in by the youth. This is an endeavour which will aid the various stakeholders (policy makers,

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educators, parents, youngsters, banks & other financial institutions, regulators, etc) to undertake necessary policy interventions, create effective educational programs, develop relevant financial products and effectively train the next generation of decision makers to make better financial decisions. Also, relevant research gaps need to be explored in order to undertake future research. The current research paper is an attempt in that direction.

Keywords: Young Adults, Financial Behavior, Financial Attitude, Financial Literacy, Risk Aversion, Self-Perception, Financial Decision Making

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104 The Applications of Artificial Intelligence in Cancer Biology

Paper ID V6I5-1389 · Pages 553-559 · Computational Biology

Namrata Atur, Student, Independent Researcher
Aditi Venkatesh Bhat, Student, Independent Researcher

Having heard that artificial intelligence is going to be used everywhere, the application of artificial intelligence in cancer is one such example. Through deep learning, it is possible to make a model that can particularly predict an individual's response to a specific treatment. It is also said that artificial intelligence can be used to detect the different stages of cancer.

Keywords: Artificial Intelligence, Cancer Biology

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105 Web chat: Interactive application for disabled people

Paper ID V6I5-1350 · Pages 560-564 · Natural Language Processing

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The world wide web (WWW)is one of the most important resources available which can be used to deliver information to any part of the world. Information can be made available in interactive ways. There are different forms of these resources such as education, employment, government, e-commerce, recreation, health care, and many more. It is also important that the Web can be accessible to everyone and everywhere, so websites should be developed in such a way that even the people who have disabilities should be able to make use of it. An accessible web can help disabled people to participate in many social activities and not make them feel omitted. Accessible websites are often the best way to interact with people with disabilities. So, this project aims at developing a chat bot which can help visually disabled people to browse through the website and learn about their products like any normal person.

Keywords: Chatbot, Web

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106 A digital watermarking for social network data sets for enabling the data trust

Paper ID V6I5-1370 · Pages 565-569 · Computer Science

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Digital watermarking has become a promising research area to face the challenges created by the rapid growth in distribution of digital content over the internet. To prevents misuse of this data Digital watermarking techniques are very useful, In which a Secret message called as a watermarks which could be a logo or label, is embedded into multimedia data which again could be used for various applications like copyright protection, authentication, and tamper detection etc.. Based on the requirement of the application the watermark is extracted or detected by detection algorithm to test condition of the data. This paper presents another approach for watermarking image and extracting it for authentication purposes.

Keywords: Digital Watermarking, DWT, Embedding, Extraction

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107 Relationship between mindfulness, relationship satisfaction and subjective happiness

Paper ID V6I5-1363 · Pages 570-610 · Psychology

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The aim of this study was to investigate the relationship between Mindfulness, Relationship Satisfaction and Subjective Happiness among young couples' population. The sample included 60 participants who were in a relationship aged between 18 to 29 years. It was hypothesized that the three variables are strongly correlated with each other. to test the same, three scales were used, Mindful attention awareness Scale, Relationship assessment Scale and the Subjective happiness scale was used to measure the variables. Data was analysed using Pearson correlation coefficient along with Consent form and demographic details to study the correlation between Mindfulness, Relationship Satisfaction and Subjective happiness. The results showed that there is a positive correlation between Mindfulness and Relationship satisfaction , Mindfulness and subjective Happiness and Relationship satisfaction and subjective happiness among young couples. This suggests that individuals who are mindful experience high relationship satisfaction and happiness .A detailed discussion and the limitations of the study are discussed.

Keywords: Mindfulness, Relationship Satisfaction, Subjective Happiness, Young Couples

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108 Palm oil classification using deep learning

Paper ID V6I5-1379 · Pages 611-613 · Deep Learning-ai

Prateek Dutta, Student, G.H.Raisoni College of Engineering, Nagpur, Maharashtra

Deep Convolutional Neural Networks (CNNs) are established as a strong category of models for image

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classification issues. This study aims to use and analyses the accuracy of deep learning in classifying rips on oil fruit. This study trained dataset, deep convolutional neural network to classify 628 pictures into a pair of totally different categories. By victimization CNN with five epochs, the results show that the results provide promising leads to the classification with the accuracy of 95.6% that higher the compared previous strategies. This study was with success determination a picture classification by detected and differentiated the matureness of feather palm fruit.

Keywords: Classification, Deep Convolution Neural Network, Palm Oil Ripeness

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109 Review on polymers and fly ADH in bitumen

Paper ID V6I5-1396 · Pages 614-620 · Civil Engineering

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The bitumen top coat of the soil comprises of Asphaltic Mix consisting of an appropriate proportion of coarse aggregates (CA), fine aggregates (FA) and filler mixed with full bitumen. The lighter walkways have poor strength creation and could therefore break in action below the charging activity i.e. elastic

Keywords: Bitumen, Flexible, Polymer

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110 Review of laboratory studies on performance of cold max asphalt using different additives

Paper ID V6I5-1397 · Pages 621-624 · Engineering

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Vikram kaintura, Assitant Professor, Himgiri Zee University, Dehradun Uttarakhand

In the current study, the focus was made on upgrading or modifying the cold mix asphalt (CMA) to a stage where the mechanical properties of CMA are comparable to traditional hot mix asphalt (HMA). Additives like cement and/or lime or waste materials (by-products) could be used within the mixtures to improve the mechanical properties, like indirect tensile stiffness modulus, resistance to permanent deformation, creep stiffness. Cold mix asphalt (CMA) with comparable engineering properties to hot-mix asphalt (HMA) is a breakthrough in laying of asphalt, particularly because these require no heat within the manufacturing and, the rutting and structural resistance to distress that occurs in road pavement and life span of pavements can indeed be enhanced. Many research projects have seen major developments in the hot laying process. The key goal is to create and refine a high-performance CMA mixture for use as a surface track that can be used in any scenario instead of hot mix asphalt (HMA). Because of these changes mix technology. Cold mix technology lags behind in both the fields of science and implementation, which is very evident in India. It is the main justification that underlies the option of the said CMA as current research area. In fact, this also provides benefits for the environment and economic benefits as compared to HMA.

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Keywords: Parking, City, Institutes, Disaggregate, Aggregate Model

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111 Incorporating polymers and fly ash in bitumen mix

Paper ID V6I5-1407 · Pages 625-630 · Civil Engineering

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Transport network is the bedrock of our country, which plays a significant role in its development. The rail network is the primary means of transport in our world. The government of India set up various schemes for both the development and maintenance of highway and roadway networks. Marshall quotient of an altered BC mixture has been observed to be greater to 4.38 especially in comparison to a Marshall quotient mix proportion of 3.06. This rise in the Marshall quotient expanded the rigidity of the modified mixture and improved its resistance to cracking.

Keywords: Styrene Butadiene Styrene ,Bitumen, BC, VMA, VFB, VMA, Marshall Stability

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112 The glimpse of immigration in the works of Bharati Mukherjee

Paper ID V6I5-1403 · Pages 631-632 · English Literature

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The present study and honest attempt to examine how in her novel, Bharati Mukherjee has been widely acknowledged as a voice of expatriate-immigrant sensibility. Bharati Mukherjee's novels offer yet another proof of her genuine interest in exploring the theme of cultural confrontation in the context of a historical novel writer. She attempts a kind of re-discovering of Indian treasure and art collections and manages to locate the most perfect diamond in the world kept in a museum. Her fiction makes a very violent attempt to chronical struggles of the immigrants and their sincere effort at attempt to assimilate themselves in the melting pot. Bharati Mukherjee has been widely acknowledged as a voice of expatriate-immigrant sensibility.

Keywords: Bharati Mukherjee, Immigration, Canada

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113 The Theme of Wife by Bharati Mukherjee

Paper ID V6I5-1408 · Pages 633-634 · English Literature

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The present study and honest attempt to examine how in her novel, Bharati Mukherjee has been a voice of the phase of Expatriation, concentrates on the individual eccentricities of her women Protagonists. “The quest for voice for identity is in fact the quest for a form on the part of the novelist which can render "apparent the difference between the process of actual experience of destruction and disintegration as a thought Bharati

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Mukherjee`s writing largely reflects her personal experiences as a women caught between two cultures, she writes entertainingly and with a sort of fluid prose that it is very good to read and she can make her character spring to life with a world and has an acute ear for dialog.

Keywords: Barati Mukherjee, Wife

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114 Comprehensive review on three roller bending operation

Paper ID V6I5-1395 · Pages 635-639 · Mechanical Engineering

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Mohamad Javed, Assistant Professor, MSS's College of Engineering and Technology, Jalna, Maharashtra

This paper describes a comprehensive review of major published research work performed on three roller cylindrical bending process. Based on the literature, further research scope is identified. The present literature reveals that there is a further scope to model the three roller bending process in a generalized and simplest form includes various parameters viz geometrical, process, and material parameters, which will help to produce sheet metal parts to precise shape with smooth surface finish and good dimensional accuracy.

Keywords: Bending, Mathematical Model, Material Properties, Steel, Rolling, Alloys, Cylindrical

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115 Comparison between sliding mode and PID controller for fully interaction three-tank system

Paper ID V6I5-1294 · Pages 640-647 · Engineering

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Regulating the amount of liquids is a critical condition in many manufacturing processes. The tanks are also so linked together that the levels communicate and display a nonlinear conduct. The sliding mode control (SMC) is used to regulate the level of the coupling tank structure. We initially developed a mathematical model for a nonlinear multi input single output system. A simulation to track a non-linear three tank system model is performed using MATLB / SIMULINK. The performance of SMC is compared to PID controller

Keywords: SMC, PID, Sliding surface, Chattering

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116 Survey on nurses perception on care of Traumatic Brain Injury (TBI) patients

Paper ID V6I5-1326 · Pages 648-653 · Nursing

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Background: Traumatic brain injury (TBI) is a leading cause of illness, death, disability and socio-economic damage in India and other developing countries. Each year, approximately 1.5–1.7 million people are neurologically disabled due to TBI in India. Nurses are health professionals who see the full impact of TBI and have the skills to change a patient's recovery path. Nurses have a large role to play in the acute and chronic management of patients with moderate-to-severe TB because nurses are important members of interdisciplinary teams. Nurses have a lot of responsibilities in caring for these patients at all stages of treatment and recovery. Methods: The research approach adopted for the study was cross-sectional, exploratory design to determine nurses' perceptions about care for patients with traumatic brain injury (TBI). As samples, 120 Staff nurses were selected through purposive sampling technique at PESIMSR Hospital inkpad, Andhra Pradesh. The collected data were analysed by using descriptive and inferential statistics in terms of Frequencies, Percentage distribution and chi-square test. Results: majority of the samples were 26-30 years old, female, undergraduates, critical care nurses, had 2.1-5 years of working experience and had no specific training regarding TBI patient care. Majority of the nurses had moderate knowledge and high level of confidence on care of TBI patients. The perceived confidence of nurses at PESIMSR hospital on care of TBI patients was significantly higher than their perceived knowledge. Age, professional qualification and professional experience of nurses had significant association with their perceptions. Conclusion: Results of this study suggested enhancing the knowledge of critical care and emergency room nurses through additional education and training on evidence-based TBI care.

Keywords: Survey, Critical Care, Nurses, Perception, TBI Patients

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117 Using ensemble random forest, boosting and base classifiers to ameliorate prediction of students' academic performance

Paper ID V6I5-1348 · Pages 654-660 · Computer Science

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In recent time, educational data mining (EDM) has received substantial considerations. Many techniques of data mining have been proposed to dig out out-of-sight knowledge in educational data. The Knowledge obtained assists the academic institutions to further enhance their process of learning and methods of passing knowledge to students. Education Data Mining have been playing substantial role in predicting student's academic performance. In this study, a novel student's performance prediction model premised on techniques of data mining with Students' Essential Features (SEF). Students' Essential Features (SEF) are linked to the learner's interactivity with the e-learning management system. The performance of student's predictive model is assessed by set of classifiers, viz. Bayes Network, Logistic Regression and REP Tree. Consequently, ensemble methods of Boosting and Random Forest using WEKA as an Open Source Tool are applied to improve the performance of these single classifiers. The results obtained reveal that there is a robust affinity between

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learner's behaviours and their academic attainment. Results from the study shows that REP Tree and its ensemble record the highest accuracy of 83.33% using SEF. Hence, in terms of Receiver Operating Curve (ROC), boosting method of REP Tree records 0.903, which is the best. This result further demonstrates the dependability of the proposed model.

Keywords: EDM, Ensemble, Boosting, Random Forest, Data Mining, Classifiers, Machine Learning

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118 Encroaching the legislative field? Purposivism v. Textualism in practice: A clear distinction or a convergence of theories: Analysis of Cardozo's Methods of statutory interpretation

Paper ID V6I5-1374 · Pages 661-665 · Jurisprudence And Law

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The Judge laws down the law, is a statement that is more often that not under dispute. Interpretation of States has a wider connotation and an impressive history situated in the common law tradition. In certain events the judges interpret the statute as it means i.e. to the text and at others wherein there exist legislative discrepancies the judges interpret the law as per individual judicial discretion. The statement the Judge laws down the law is under dispute because it is the task of the legislative to draft the laws of a nation and that of the judiciary to implement in practice. The idea of judicial law-making albeit not ideal to separation of powers has seen a growth in recent times. This paper aims in delimiting judicial discretion as explained by Benjamin Cardozo in several of his works. While judicial discretion prima facie cannot be disputed upon but there exist limits to such discretion. This paper primarily focuses upon textualism and purposivism in the interpretation of statutes. As different they are, they also need to co-exist and operate separately at times for the functioning of the judicial machinery.

Keywords: Benjamin Cardozo, Judicial Law Making, Purposivism, Textualism, Judicial Discretion

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119 Cotton plant disease detection

Paper ID V6I5-1401 · Pages 666-671 · Machine Learning

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Agriculture is one of the major sectors of the Indian economy and food security. Agriculture needs to find new ways to improve efficiency, production and yields. Approximately 30-35% of the yield gets affected by pests and diseases. The reason it happens is because these diseases are detected at a late stage which gets difficult to control. Hence, advancement in image processing technology and automated learning plays an important

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role in plant disease detection especially image processing and machine learning. On the other hand, manually detecting diseases in plants needs a tremendous amount of work, expertise and is very expensive because of the involvement of an expert or a plant pathologist. This paper majorly focuses on the need for a solution for early detection of cotton plant diseases, the diseases of cotton and their characteristics, different challenges farmers face while cultivating cotton and while identifying diseases in them, and the step by step technical approaches being used for the detection of cotton plant diseases. There is a lot scope in the advancement of technologies to improve the production by detecting and providing solutions to the farmers on an urgent basis. Agriculture is one of the major sectors of the Indian economy and food security. Agriculture needs to find new ways to improve efficiency, production and yields. Approximately 30-35% of the yield gets affected by pests and diseases. The reason it happens is because these diseases are detected at a late stage which gets difficult to control. Hence, advancement in image processing technology and automated learning plays an important role in plant disease detection especially image processing and machine learning. On the other hand, manually detecting diseases in plants needs a tremendous amount of work, expertise and is very expensive because of the involvement of an expert or a plant pathologist. This paper majorly focuses on the need for a solution for early detection of cotton plant diseases, the diseases of cotton and their characteristics, different challenges farmers face while cultivating cotton and while identifying diseases in them, and the step by step technical approaches being used for the detection of cotton plant diseases. There is a lot scope in the advancement of technologies to improve the production by detecting and providing solutions to the farmers on an urgent basis.

Keywords: Cotton diseases, Image Pre-Processing, Feature Extraction, Image Segmentation, Classification

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120 Skew recognition

Paper ID V6I5-1405 · Pages 672-675 · Computer Science Engineering

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Skew detection has been an important part of the document recognition system. If the document includes the skew it will be difficult for reader to read the document. In the proposed work, new techniques that detecting the angle of skewed document. The main advantage is that the method works on all types of scripts. These techniques successfully handle the skew detection and correction of the printed and handwritten document. The detection and correction of document skew is one of the most important document image analysis steps. Page layout analysis and pre-processing operations used for character recognition depend on an upright image or, at least, knowledge of the angle of skew. A few methodologies have been proposed as choices for skew point identification of document images. Profile project technique is a popular method for skew detection. It is capable of locating fragmented lines in a binary image. Therefore given a group of black pixels, one can find the imaginary line or lines that go through the maximum number of these pixels. Existing techniques doesn’t work for images in which there is unequal space patterns in between the lines. Existing techniques cannot detect the skew in multiscript documents. Existing system is not capable of detecting correcting the upward and downward skew together in a single text document. Existing system Rotate the whole document at once to correct the skew from the given text document. A lot of work is required to be done in context of skew detection and correction for multiscript text images. These problems are required to be solved to make use of

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the system in the real world applications. The proposed system for skew detection and correction is implemented with the help of scan line algorithm along with hough transformation algorithm. Proposed system works on the document in line by line basis i.e. detect and correct the skew of every line independently. It can work on the documents having multiple scripts on it. It can detect and correct the skew from the documents even if there is an unequal space in between the two adjacent lines. It will rotate the document on line by line basis to correct the skew from the given document. Detects and correct the upward and downward skew together in the single text document. The major problem with the existing systems was that they just rotate the entire document in the reverse direction of the angle detected to remove the skew but the proposed system process the document on the line by line basis using scan line algorithm and skew angle is detected with the help of hough transformation. The performance of the proposed system is calculated on various images having different types of skew in them. The overall accuracy of the proposed system is 98% which is far better than that of existing system. In future the proposed system can be extended for coloured images and other types of documents. Proposed system can also be extended to made it for word level skew detection and correction to get more accuracy.

Keywords: Skew Detection, Hough Transformation, Scan Line Algorithm, Document Skew Detection, Image Processing

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121 **JK Tyres positive impact of its corporate social responsibility activities on beneficiaries**

Paper ID V6I5-1289 · Pages 676-693 · Economics And Statistics

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It is revealed from the data that JK Tyres Ltd Mysuru has conducted training on hygiene and watermanagement for the beneficiaries of this particular scheme but it is revealed from the analysis that 38 percentof the respondents were not at all aware of the training program conducted by the company. About 5 percentof the respondents did not attend the training program due to their personal reasons though they were awareof the training program. It is revealed from the study that the majority of the respondents when asked to ratethe usage of toilet under various aspects like effective operation, convenience, cleanliness, smell, and ease ofrepair rated good which gives the meaning that they are happy with the benefit they have received., During thestudy, it was revealed that many families migrated newly to the villages where the toilets were constructed andthe new migrant families have not received the facilities. Respective authorities can think of considering those families in the coming FY and provide them with the needful. It is revealed from the data that about 38 percent of the respondents were not aware of the training program, respective authorities must see to it that all the beneficiaries will receive the information regarding the activities. The researcher while interacting with the respondents found that there were more people in a few houses and they had only one toilet. Respective authorities can think of providing them with the alternatives. It is found during the analysis that many houses did not have a direct water facility to their toilets. While giving the benefits authorities can consider providing such additional facilities as well. Many of the beneficiaries requested street lights and water tanks in their villages. The authorities can consider these as well while planning the Corporate Social Responsibility activities in the coming financial years.

Keywords: Corporate, Social Responsibility, Beneficiaries, JK Tyres

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122 Structural analysis and weight optimization of integrated steering knuckle

Paper ID V6I5-1409 · Pages 706-712 · Mechanical Engineering

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The aim of this project is to reduce the weight of the steering knuckle without compromising the strength of the steering knuckle. This Steering Knuckle is one of the critical components of a vehicle that links suspension, steering system, wheel hub, and brake to the chassis. It undergoes different loading under different conditions. There has been a strong trend towards the adoption of optimum materials and components in the automotive industry. The reason for this research paper is to design a knuckle that has low weight so that vehicle unspring mass can be reduced. In this project, the integrated steering knuckle is used. This research program aimed to optimize the best use of material for the steering knuckle and compare the analysis of steering knuckles made from three materials i.e. Gray cast iron, aluminum which is recently using and Mild steel is the suggested material.

Keywords: Steering knuckle, Structural Analysis, Shape and Weight Optimization, Ansys, FEA

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Improvements in veld grape batter quality from rice batter

Paper ID V6I5-1325 · Pages 713-715 · Fermented Products

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The convenience and appeal of battered or breaded products have resulted in a sales increase of 100%. Because of the rapid growth of the population and increasing consumption of rice and rice products, rice flour is a logical alternative for wheat flour in traditional batter formulation. Cultivating and new product development by using veld grape gives more nutrients compared to rice batter. This creeper crop needs very less amount of water, where people can even grow at drought cornering situation. And moreover, it has more number of health benefits like, ability to solve bone problem, obesity reduction, curing digestion problem. The effects of both rice batter and veld grape rice batter were analysed for proximate analysis. The batter rheology and its fermentation behaviour were studied. Quality parameters such as taste, texture, colour and acceptability were also analysed using sensory analysis. The highest value for sensorial acceptability corresponded to the batter produced with a mixture of rice flour (60 g/100 g) and veld grape flour (40 g/100 g)

Keywords: Rice Flour, Veld Grape Flour, Dosa Batter, Rheology, Sensory Evaluation

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E-commerce data analysis to find online shopping trend

Paper ID V6I5-1412 · Pages 716-719 · Data Science

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E-commerce has transformed the way business is done in India. There are expected to be over 2B digital buyers in the world in 2020.Share in ecommerce market is 1.6% but revenue will increase 51% in near future. By 2040, around 95% of all purchases are expected to be via ecommerce. This paper presents an overview of the unique features that differentiate big data from traditional datasets. In addition, to discover trends in online shopping of users predicting whether the user will make revenue/not based on user characteristics and also to find customized offers based on user shopping data history and categorizing them.

Keywords: Big Data Analysis, E-Commerce, Predicting.

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125 Do E-books overpower printed books: Student’s eye view

Paper ID V6I5-1420 · Pages 720-725 · Educational Technology

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E-books are gradually gaining an important role in the academics as we are witnessing a shift towards digitalization. The aim of the study was to identify the preference for reading e-books or printed books among the students. A cross sectional survey was conducted among 500 students of age between 18-28 during the COVID-19 pandemic period. A questionnaire was formatted on google forms and circulated through various social media. The data collected was analysed statistically. The mean age of the students was 23+2.47 years, out of which 338(67.6%) were females and 157(32.4%) were males. Among the students 364(72.8%) suggested e-books were environmentally friendly and contribute to control the issue of global warming to a greater extent. Adding e books in academic libraries was supported by 386(77.2%) students. The ease of adding images to e-books have instilled an interest among students to opt for including e-books in their academic libraries device they preferred mostly for reading e-books were mobile phones 261 (52.2%).The shortcoming of mobile usage for reading includes distraction by the notifications which were agreed by 424(84.8%) students in our study. 66.8% preferred printed books majorly because of eyestrain, battery issues and radiation exposure. In this generation, Students prefer new technology but preserve the old customs. So e-book will become popular but will never replaces printed books.

Keywords: Eyestrain, Distraction, Digital Books, Illustration, Mobile Phone

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126 Is it too early to worry about Artificial Intelligence takeover?

Paper ID V6I5-1377 · Pages 726-727 · Artificial Intelligence

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The high pacing advancement in the field of technology, especially Artificial Intelligence is becoming a cause of worry to human existence. It is nerve-racking to hear some top researchers, scientists, and leaders talk about the possibility of Artificial Intelligence taking over human intelligence leading to the possibility of technological singularity. It is also known that Eugene Goostman is the very first robot who has passed the Turing Test, though this statement holds a lot of controversies and is ambiguous; it is high time to take the threats that AI possesses to humanity seriously. The human beings will be replaced more and more with robots leading to humanity reach its not so bright apex. This paper focuses on the multiple hypotheses on AI, its threats, and why sometimes it is necessary to give some attention to science fiction.

Keywords: AI, Technology, Cybersecurity, Superintelligent

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