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SPECTRUM

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IJARIIT SPECTRUM

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 5, Issue 6 (November-December, 2019). This edition brings together 76 papers by 180 authors from 82 institutions. Each entry links to the abstract and the full paper.

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ABSTRACTS

1 Overview of rural marketing in India

Paper ID V5I6-1138 · Pages 1-3 · Marketing

Aashka Kakka, Student, Indian School of Management and Entrepreneurship, Mumbai, Maharashtra

Rural Marketing decides the doing of business exercises acquiring the progression of merchandise from urban divisions to the rustic locales of the nation just as the promoting of different items fabricated by the non-rural laborers from country to urban zones. A number of techniques like item, value, advancement, dissemination, showcasing and deals systems can assist different associations with capturing an enormous piece of the overall industry of country India. In any case, it isn't that simple to work in the provincial market as a result of a few issues, for example, immature individuals and immature markets, Inadequate Media inclusion for country correspondence, Multi-language and Dialects, Traditional Values, Lack of legitimate physical correspondence offices. Be that as it may, each issue has its answer. Along these lines, the issues of country promoting can be explained by improving framework, transportation, correspondence, warehousing, and pressing offices.

Keywords: Marketing innovation, Rural area, Urban area

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2 Growth of SHG-Bank linkage program in India [comparative study-region wise]

Paper ID V5I6-1137 · Pages 4-13 · Microfinance

Prachi Bhansali, Student, Christ (deemed to be) University, Bangalore, Karnataka

This paper examines the growth of the SHG-bank linkage program in India and also does a comparative study – region-wise based on the three major variables – savings, credit disbursed and loan outstanding by the SHGs which are further classified as total savings of SHG, average savings per SHG, total credit received by SHG, average credit received per SHG, total loan outstanding and loan outstanding per SHG. The data that has been used during this research is purely secondary data (NABARD’s annual report on the status of microfinance in India). The time period chosen is 5 years i.e. 2013-14 to 2017-18 and the six regions that are compared are the Southern region, Northern region, Western region, Eastern region, Central region and Northeastern region. The methods that have been used for the success of this research are - Pearson’s correlation and the regression Model. To draw interpretations, various charts and graphs for better and easy comparisons were also used. The findings of this research were that the SBL program was on an increase every year and then reach out to the Southern region was significantly very high and that of the North-Eastern region was very low. It was also found that there is an impact of savings per SHG on the credit received per SHG and there is an impact of savings on the loan outstanding per SHG as well but there is no significant impact of average credit received per SHG on average loan outstanding per SHG.

Keywords: SHG-bank linkage program, Microfinance, Savings by SHG, Credit disbursed by SHG, Loan outstanding by SHG

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3 Openloop simulation of medium frequency induction melting furnace with 12 pulse rectifier and H-bridge inverter

Paper ID V5I6-1144 · Pages 14-19 · Electrical

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The combination of 12-pulse Δ-Δ / ⅄ connected fully controlled rectifier and H-bridge inverter arrangement is fed the coreless medium frequency induction melting furnace. The current waveform is distorted because of the various characteristic current harmonics introduced in the source side due to non-linear IMF load on the power system.

Keywords: 12-Pulse rectifier, H-bridge inverter, Medium frequency induction melting furnace, Harmonics.

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4 Using children’s literature across the curriculum at primary and secondary level: A study on Assamese children’s literature

Paper ID V5I6-1147 · Pages 20-22 · Education And Assamese Literature

Dr. Montu Kumar Borah, Doctrate Degree Holder, Gauhati University, Guwahati, Assam

The literature specifically designed and produced for children is the Children’s Literature and it has a significant need in developing children’s imagination, creativity, natural as well as emotional development. Every child is dreamer, the dreaming can be enhanced over by the children's literature in the textual format, Picture or as an audiovisual format. Such children's specific contents are usually applied in the course curriculum for the children and it plays a great role in the homologous extension of the aim to enhance children’s creativity as well as the imagination, because all of our children may not have enormous access of children literature. Using Children’s literature across the curriculum mitigates any kind of disparity to children in terms of thinking, imagining and dreaming about each world phenomenon. The Assamese Children Literature is very rich in terms of content, number and fruitful composition. Such literature has been added by the bodies of course curriculum with a motto to enhance children’s motivation towards new thinking again and again. It is usually applied at the juncture or before that age group, they able to cultivate inductive and deductive reasoning. It is a realistic agent to enhance rethinking on any fantasy and its road to reality. In this article, some crucial angles are taken for an account and studied accordingly.

Keywords: Children’s Literature, Inductive, Deductive

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5 IR based image processing techniques for media applications

Paper ID V5I6-1149 · Pages 23-25 · Computer Science Engineering

Shalu Rana, Student, Doaba Institute of Engineering and Technology, Kharar, Punjab
Ramanjot Kaur, Assistant Professor, Doaba Institute of Engineering and Technology, Kharar, Punjab

A compression artifact (or artefact) is a noticeable distortion of media that includes images, audio and video caused by the application of lossy data compression that involves discarding some of the media's data so that it becomes simplified enough to be stored within the desired disk space or be streamed within the bandwidth limitations. At low bit rates, any lossy block-based coding scheme introduces visible artifacts in pixel blocks and at block boundaries. These boundaries can be transforming block boundaries, prediction block boundaries, or both, and may coincide with macroblock boundaries. Because this quantization process is applied individually in each block, neighboring blocks quantize coefficients differently. This leads to discontinuities at the block boundaries. These are most visible in flat areas, where there is little detail to mask the effect.

Keywords: Artifact, IMAGE Processing, Nearest Neighbor, Medical

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6 Performance analysis of 1.6 Tbps Optical Code Division Multiple Access system using Multi-Diagonal Code

Paper ID V5I6-1153 · Pages 26-31 · Electronics And Communication

Bharath Kumara, Assistant Professor, Ramaiah University of Applied Science, Bengaluru, Karnataka
Deelip R., Assistant Professor, NDRK Institute of Technology, Hassan, Karnataka

The rapid expansion of multimedia services could lead to improve network accessibility with multiple users simultaneously. The technological development in asynchronous communication considered system performance as one of the major issues. Simultaneous accessing of the channel from the multiple stations is one of the techniques. Traditionally multiple access for the channel is playing an important role in multiple asynchronies communication. Optical Code Division Multiple Access (OCDMA) is one of the advanced techniques used in accessing the asynchronous network due to its inherent capability. OCDMA provides dynamic bandwidth support for multimedia services. In this paper, the OCDMA system is designing using Multi Diagonal (MD) code and Direct Detection (DD) code to improve the Bit Error Rate (BER), Q-factor. The designed system is used to compare with the MD code and Modified Congruence Quadratic (MCQ) code to determine the performance improvement for multiple users.

Keywords: OCDMA, MD, MCQ, BER, Q-factor, Multiple access, Direct Detection (DD)

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7 Comprehensive study of software testing: Categories, levels, techniques, and types

Paper ID V5I6-1154 · Pages 32-40 · Computer Science And Technology

Mubarak Albarka Umar, Student, Changchun University of Science and Technology, Jilin, China

Software Testing is the process of evaluating a software program to ensure that it performs its intended purpose. Software testing verifies the safety, reliability, and correct working of the software. The growing need for quality software makes software testing a crucial stage in Software Development Lifecycle. There are many methods of testing software, however, the choice of method to test a given software remains a major problem in software testing. Although, it is often impossible to find all errors in software, employing the right combination of methods will make software testing efficient and successful. Knowing these software testing methods is the key to making the right selection. This paper presents a comprehensive study of software testing methods. An explanation of Testing Categories was presented first, followed by Testing Levels (and their comparison), then Testing Techniques (and their comparison). For each Testing Levels and Testing Techniques, examples of some testing types and their pros and cons were given with a brief explanation of some of the important testing types. Furthermore, a clear and distinguishable explanation of two confused and contradictory terms (Verification and Validation) and how they relate to Software Quality was provided.

Keywords: Software testing, Software testing categories, Software testing levels, Software testing techniques, Software testing types, Software quality, Verification and Validation

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8 The influence of social media tools on public universities in Kenya

Paper ID V5I6-1151 · Pages 41-44 · Educational Technology

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Students in public universities are among the most active users of social media tools and platforms. There is little research data on the influence of social media on public universities in Kenya. It is critical to study how social media affects the wellbeing and academics of public university students in Kenya. The objective is to determine the influence of social media on public universities in Kenya. The research utilized a qualitative research design facilitated by a systematic literature review methodology. Findings from 12 studies were comparatively analyzed to determine the degree of conformity in a bid to answer the research question. The findings included that the influence of social media on a student's wellbeing and academics depends on the student's engagement in social media activities and consumption of the corresponding content. Social media can be an educational resource, enhance engagement, communication, and participation in classroom activities, and improve professional networking. Social media can also be a source of distraction andcybercrime besides the fact that it can also lead to addiction. The influence of social media on publicuniversities in Kenya depends on the students' engagement with social media activities and content.Educators, higher education administrators, and parents should monitor and control how students use socialmedia content.

Keywords: Social media, Social network, Academic performance, Distraction, Internet addiction, Cybercrime, Learning activities, Networking, Collaborative learning

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9 Review on prediction of heart disease using data mining

Paper ID V5I6-1152 · Pages 45-47 · Information Technology

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The heart is the next major organ comparing to the brain which has more priority in the Human body. Prediction of occurrences of heart diseases in the medical field is significant work. Data analytics is useful for prediction from more information and it helps medical centers to predict various diseases. A huge amount of patient-related data is maintained monthly. The stored data can be useful for the source of predicting the occurrence of future disease. Some of the data mining and machine learning techniques are used to predict heart disease, such as Artificial Neural Network (ANN), Decision tree, K-Nearest Neighbor(KNN), Naïve Bayes and Support Vector Machine (SVM). This paper provides an insight into the existing algorithm and it gives an overall summary of the existing work.

Keywords: Cardiovascular disease, Data mining, Classification, Naive Bayes

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10 Framework for information management through step sequencer

Paper ID V5I6-1158 · Pages 48-51 · Computer Science Engineering

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Data is now commonly stored in digital format because it is the most secure way to store, manage, access and share information across networks. However, there is always a risk that unauthorized users will access data and, in the worst case, that malicious hackers will modify the data. The symmetric cryptosystem is used in the approach proposed. The symmetric cryptosystem is used in the proposed method. Data is divided into two sub-blocks and each block is encrypted to provide enhanced security using three separate secret keys. This deterministic algorithm is implemented using the LabVIEW tool. One of the three keys that diffuses the one other keys provided by the information is for misunderstanding. In the proposed solution blocks the main search attacks heavily. There are two separate secret keys used and to improve the robustness of the algorithm, random rotation is applied.

Keywords: Cryptosystem, Random rotation, Symmetric cryptosystem

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11 Impact of self-esteem upon academic performance of college students

Paper ID V5I6-1155 · Pages 52-55 · Education

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Introduction: Self-esteem is a personal force or a potential effect and it referred as person's global judgements of competency regarding one's self-worth.This study aimed to assess the impact of self-esteem upon academic performance of the college students.Research methodology:A descriptive correlational study was conducted at selected nursing College,Chennai,with the sample size of 98 students who were selected through total enumerative sampling technique. Data was collected by using tools such as background variable proforma, Rosenberg Self-Esteem Scale(RSES) and proforma to assess the academic performance of the B.Sc(N) I year students.Results: There was a positive correlation (r=0.4) between self- esteem and academic performance which is statistically significant($p < 0.001$) indicating the fact that improving one's self esteem can have positive impact on academic performance. Conclusion: The above findings revealed that self -est eem is most important factor that influences students'forecast of academic performance. Planning psychological interventions to boost the self -esteem of the students will be helpful in improving their academic performance.

Keywords: Self - esteem, Academic performance, Nursing students

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12 A search for the origin and cause of attractive and magnetic property in meteorites

Paper ID V5I6-1136 · Pages 56-67 · Maharashtra

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Abstract. Meteorites are known to be attracted to a magnet, whether they possess magnetic property or not are unknown. Hence to study the attractive property and magnetic property in meteorites, seven meteorites, six iron meteorites namely Campo-del-Cielo 2 nos, Sikhote Aline 1 no., unknown iron meteorites 3 nos, and Chelyabinsk, a stony meteorite were investigated to study their attractive property and magnetic property. For the study purpose, three experiments were conducted through mariner compass, standard magnets of different strength and iron filings. The conclusion drawn from these experimental studies showed that meteorites do not possess any magnetic property. They are found to be strongly attracted towards a magnet because of Fe compounds i.e., [Fe (iron) and Ni (nickel)] and possibly may be due to unknown elements present in them. This paper reports the work carried on seven meteorites on a preliminary basis, to study the attractive and magnetic property in meteorites and to put on records the work carried out. This work is of prima facial in knowing and studying the attractive and magnetic property in meteorites by different and simple methods. This is a small attempt to solve the fundamental question about magnetic property in meteorites.

Keywords: Meteorites, Meteoroids, Asteroids, Magnetic property, Attractive property, Mariner compass, Magnets, Iron Filings

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13 GSM based fire alarm system

Paper ID V5I6-1161 · Pages 68-70 · Integration Of Gsm And Arduino

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In this project, we are going to describe the usage and numerous advantages of a Fire alarm system in daily life. It has a great scope in daily life as it can be used in various fields and the best part about it is, we will receive a text message if the fire is detected. This project can be implemented in industries mines, colleges, etc. Security and automation are prime worries in our everyday life. The way to deal with home and industrial automation and security framework design is nearly institutionalized these days. Everybody wants to be secured. So, every user can use this fire sensor, temperature sensor, gas sensor, the smoke sensor at home and enterprises. The objectives of this fire detector using Arduino is to sense the surroundings for the occurrence of fire with help of temperature sensor and send 3 SMS alerts to two mobile numbers stored inside the Arduino program if the fire is detected.

Keywords: Sensors, GSM, LM35, MQ-6, Fire, Gas, SMS

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14 Smart license for E-Government

Paper ID V5I6-1162 · Pages 71-75 · Computer Science And Technology

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In rapid growing technology world, electronics has taken over a leap in every domain, storing the copious data into small chip. A smart card, chip card, or integrated circuit card (IC) is any pocket-sized card with embedded integrated circuits. Smart Cards are secure portable storage devices used for numerous applications especially security related to user confidential information involving access to system's database either online or offline. Smart cards are manufacture using plastic, generally polyvinyl chloride (PVC). This research is chiefly to study the security principles of smart card and assess the security aspect effects on smart card technology usage and adoption. The proposed Smart License system for E-government is very useful for the purpose of denying the access of driving the vehicle without having Valid license. The project comprises microcontroller-based system having 89S52 controller, Smart Card, GSM Module and respective Sensors. The system does verification of the License expiry of the driver with the help of RTC Details. In case of license Expiry of the user system will send message to the RTO office number saved in the system. Along with License verification the system is also useful for LPG leakage detection in the car. The LPG Leakage detection helps user in order to avoid further accidental conditions and step towards to diminish excessive pollutant release by the particular car.

Keywords: AT24C04, 89S52, MAX 232 IC, MQ-6, ADC 0809, LCD, SIM 900, Buzzer

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15 Impact of fluctuations in exchange rate on Sensex

Paper ID V5I6-1172 · Pages 76-80 · Financial Market

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This paper analyses the "Impact of Fluctuations in Exchange Rate on Sensex." The scope of the study has been restricted to India only. The exchange rates used for the study are of Re/$. The issue of whether stock prices and trade rates are connected or not has gotten significant consideration. On the off chance that stock prices and trade rates are connected and the causation keeps running from trade rates to stock prices, at that point, the emergency in the securities exchanges can be counteracted by controlling the trade rates. In addition, creating nations can endeavor such a connection to pull in/invigorate outside portfolio interest in their very own nations. So also, in the event that the causation keeps running from stock prices to trade rates, at that point experts can concentrate on Local financial arrangements to balance out the securities exchange. On the off chance that the two markets/costs are connected then, financial specialists can utilize this data to anticipate the conduct of one market utilizing the data on other markets.

Keywords: Financial Markets, Sensex, Exchange rate

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16 Leaves recognition using back propagation Neural Networks

Paper ID V5I6-1157 · Pages 81-85 · Computer Science Engineering

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The main goal of this project is to develop a software model, to suggest remedial measures for pest or disease management in agricultural crops. Using this software, the user can scan an infected leaf to identify the species of leaf, pest or disease incidence on it and can obtain solutions for its control. The software system is divided into modules namely: Leaves Processing, Network Training, Leaf Recognition, and Expert advice. In the first module edge of the leaf and token values found. The second module deals with the training of the leaf to the neural network and finding the error graph. The third and fourth modules are to recognize the species of the leaf and identify the pest or disease incidence. The last module is aimed at matching the recognized pest or disease sample on to the database wherein pest-disease image samples and correcting remedial measures for their management are stored.

Keywords: Leaf, Pest, Disease, Agricultural, Image Processing, Species, Processing, Training, Recognition, Token, Back propagation

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17 An efficient MIMO antenna for C-band Wireless Communication

Paper ID V5I6-1163 · Pages 86-87 · Electronics And Communication Engineering

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In this paper, an efficient MIMO antenna with single-band operating in C-band (4.8 - 5.0 GHz) has been proposed for wireless communications. The proposed design consists of four antennas and it is parallel to the edge of the system which is unlike conventional 5G antennas. It can be easily applied to the new technology used in mobile phones i.e. bezel-less mobile phones. The simulation result shows a reflection coefficient of less than -15 dB with a bandwidth of 0.2 GHz (4.8 - 5.0 GHz), and it will cater to 5G communication applications.

Keywords: 5G communication, MIMO, Antenna, Single band

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18 Cloud and high-performance computing tools for sequence alignment in bioinformatics

Paper ID V5I6-1166 · Pages 88-91 · Bioinformatics

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Pairwise Sequence alignment and Multiple sequence alignment are the major challenges for the Bioinformatics application. In recent years there is good development and progress in this field by introducing good Tools or software’s, through which the High-Performance computing in alignment is achieved. This kind of alignment

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need a best Database for searching the protein's and nucleotides. This paper talks about recent tools which evolved for Database searching and parallel computing of huge biological data. This is useful for the researchers or practitioners who are working for bioinformatics applications.

Keywords: Bioinformatics, Cloud, Clustering, Parallel and Distributed computing, Multi core, Supercomputers, Database searching, Pairwise and Multiple Sequence alignment.

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19 Start interlock device for motorcycles

Paper ID V5I6-1182 · Pages 92-95 · Mechanical Engineering

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Start Interlock Device or SID might be a component placed in inside a vehicle that needs the rationale power to inhale into the gadget before starting the vehicle. On the off chance that the SID recognizes that the liquor level or blood liquor content (BAC) is over the acknowledged value, the motor won't start. On the off chance that the intention power can't give a clean inhale test, the SID can log the occasion, caution the thought process power, thus start partner alert. the point of the SID is to stop mishaps on account of driving underneath the impact (DUI). With the expansion of two-wheel vehicles inside the Philippines on account of its quality and purchasing power, SIDs square measure still basically put in on four-wheeled vehicles. regardless of whether riding a bicycle once an alcoholic is a ton of hazardous, there square measure exclusively a little assortment of putting in gadgets on cruisers and bikes. the general target of this investigation was to build up a framework with equipment and programming framework components that will execute SID on bikes. The investigation used a distinct strategy of examination. The examination conjointly completed the accompanying: the infrared ought to have a point-to-point correspondence, the breathalyzer on the head protector should respond to aging liquor, the microcontroller on the bicycle should make due with all IR signals from the cap Associate in Nursing the translate it and in this manner the GPS ensure should have a patent observable pathway correspondence with the GPS satellites.

Keywords: Engineering, Automobile, Transportation research, Safety, Motorcycle Ignition, Mechanics

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20 Study of ZnO Nanoparticles for Gas Sensing Application

Paper ID V5I6-1160 · Pages 96-106 · Physics

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This report presents a brief discussion on the importance of ZnO nanomaterial in gas sensing applications. Recent developments on ZnO-based gas sensors have been reviewed. The primary work in this report involves the study of the Raman spectrum of a ZnO wurtzite sample. Using the group theoretical background, the various vibrational modes of the ZnO wurtzite have been studied at length. Finally, the defect properties of ZnO wurtzite, mainly the oxygen vacancy defect which plays an important role in a gas sensing application, have been investigated

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Keywords: Gas sensors, Phonon, Wurtzite, Nanomaterial

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21 Investigating the effect of poor handling of concrete ingredient in the properties of fresh and harden concrete

Paper ID V5I6-1171 · Pages 107-109 · Construction Engineering

Mikiyas Alemeshet Abera, Lecturer, Wolaita Sodo University, Wolaita Sodo, Ethiopia

Construction materials management is an important element in the management of construction projects. One of the construction materials widely used in construction projects is concrete. Concrete is one of the important constituents of many of the construction projects, in addition to its subjectivity to variability, requires a close and thorough care and handling in construction projects. The constituents of concrete, in which majority of them occur naturally, are subjected to a wide range of variability and quality problems. Therefore, with this respect, a research was carried out and the objective of this experimental study was to investigate the effect of poorly handled concrete ingredients in the properties of fresh and harden concrete to assess the effect. The ingredients were collected from Five (5) active construction sites around the study area and they wear ready for use when the sample was taken for the research purpose. A laboratory test was conducted for each ingredient before the preparation of concrete. After that mix design was prepared specifically for C-25 concrete then by using weight batching the ingredients are introduced to electrical mixer, after the mix prepared, workability, setting time, and compaction factor test was conducted to identify the properties of the fresh concrete and then a total of 45 concrete cube sample was cast or three (3) sample for each source of the ingredients and for each testing day, the compressive strength test was conducted on the 7th, 14th and 28th day. For the workability test, both slump test and flow table tests were conducted and the result shows that the concrete mix has high workability and the slump is collapse slump and this result is due to the high-water content on both coarse and fine aggregate. the initial setting time of the concrete mix was greater than the ASTM standard specification due to the impurities present in the mixing water also the mix has a high compaction factor test result due to the high workability of the mix or due to self-consolidating property of the concrete mix. The average compressive strength of the concrete after 28th day was not satisfied with the desired strength also the 7th day and the 14th-day compressive strength was less than 60% and 90% respectively of the desired 28th day compressive strength. The result is occurred due to low aggregate crushing value, high silt content of fine aggregate, water impurities and high-water content in the mix. The result shows that the effect of poor handling of concrete ingredients in the properties of fresh and hardened concrete.

Keywords: Concrete, Ingredient, Handling

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22 Comparative study on the effects of using natural sand and manufactured sand for the production of C-25 concrete

Paper ID V5I6-1173 · Pages 110-112 · Construction Engineering

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Manufactured sand is a term used for aggregate materials less than 4.75mm and which are processed from crushed rock or gravel. Due to the booming of construction activities in our country, natural sand resources are increasingly depleted and its cost is becoming increasingly high. This research was, therefore, conducted to study the Effects of Using Natural Sand and Manufactured Sand for The Production Of C-25 Concrete and to assess the prospects of using manufactured sand as a replacement of natural sand in Ethiopia. Initially, different natural and manufactured sand samples to be used in the concrete mixes were collected and their physical properties were studied. Fifteen different concrete mixes having five mix proportions for both natural and manufactured sand (i.e. 100%NS+ 0%MS; 75%NS+25%MS; 50%NS+50%MS; 25%NS+75%MS and 0%Ns+100%MS) were prepared for C-25 Concrete strength using EBCS mix design procedure. The properties of these mixes have then been assessed both at the fresh and hardened state. The using of manufactured sand as a fine aggregate has a significant effect on the workability and finishing ability of the concrete, also, the results of hardened properties of the mixes have shown that concrete mixes with partial proportions of manufactured and natural sand achieved a higher compressive strength at all test ages. The result also has shown that using manufactured sand in partial or full replacement to natural sand doesn't cause any significant effect on the compressive strength of concrete. It has been found also that the use of manufactured sand is more suitable for high strength concrete production. It can, therefore, be concluded from the findings of this research that when the availability of natural sand is scarce or in cities where the price of natural sand is as expensive as manufactured one, manufactured sand concrete mix is a viable and better alternative to the use of natural sand.

Keywords: Aggregate, Compressive Strength, Concrete, Cost, Manufactured sand, Workability

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23 Water budgeting and its importance

Paper ID V5I6-1175 · Pages 113-115 · Environment Sustainability

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Water is the physical basis of life. Without sufficient water on the planet earth, the existence of biodiversity is highly impossible. "A water budget is a basic tool that can be used to evaluate the occurrence and movement of water through the natural environment". India entered the water deficit nations league in 2011. We have an annual financial budget with the estimations of income and expenditure. In the same way, the state water budget is to enable and empower the states to ensure that annual water withdrawals are within the limits of utilizable availability. State Water Budgeting empowers the State Government in achieving Water Security, Safety and Sustainability. The primary stakeholder in the water budgeting exercise is the "Farmer". This exercise helps the farmer become aware of the water availability at the watershed/village level and make an appropriate agricultural plan. The Crop Water Budgeting (CWB) tool has been developed to assist communities in how to utilize surface and groundwater efficiently without causing further depletion of present resources. The

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most important advance in modern agriculture is the invention of the drip-irrigation system. Drip method of irrigation (DMI) was introduced in India during the mid-1980s primarily to save water. Now Israel is the world's leader in farming and irrigation practices. India should learn lessons from Israel by adopting its success story. India is facing a severe water crisis and drought with an increasing population at an alarming rate. So there is an urgent need to establish water recycling units, desalination plants to irrigate agricultural lands and to maintain moisture in barren lands by irrigating them with recycled water and followed by massive introduction of micro-irrigation techniques.

Keywords: Water budgeting, Importance, Supply-demand, Stakeholders, Watershed management, Israel, Drip irrigation

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24 Evaluating factors responsible for inconsistencies in mobile devices digital forensic evidence extraction process model

Paper ID V5I6-1177 · Pages 116-122 · Mobile Devices Digital Forensics And Cyber Crime

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The proliferation of mobile devices has revolutionized life in the 21st century ranging from the way people socialize to the modes of doing business. Mobile devices contain substantial amounts of private data that in event of crime or security investigations when adduced before any court of law can aid in resolving a number of undetermined causes. However, mobile digital forensics research is still faced with several challenges. Most existing mobile devices digital forensic evidence extraction models are vendor-specific and thus anchored on specific device platforms such as Android, Windows, Apple iOS, and Blackberry. Additionally, these models contain various process inconsistencies and lack specified technical documentation. Further, the growing demand for the mobile devices and crime-related occurrences affecting them has strained and exposed the existing models. A number of questions thus remain unanswered into the factors responsible for these inconsistencies and the lack of a unified model that can be applied across these four operating system platforms. A mixed-method approach involving a survey was used in this study where respondents were drawn from ICT practitioners, law enforcement agencies, researchers and the business community. This study highlights several factors that contribute to digital evidence extraction process model inconsistencies which include policy, extraction methods, nature of data, device type, data type, and extraction tools among others. The study proposes systematic documentation of every step followed during evidence extraction from mobile devices so as to avert the inconsistencies.

Keywords: Mobile devices, Digital evidence, Process model, Extraction inconsistencies

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25 Efficient and effective keyword search over encrypted data in cloud

Paper ID V5I6-1191 · Pages 123-127 · Computer Science And Engineering

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Searchable Encryption (SE) systems provide cloud information with safety and privacy. The current SE methods allow multiple users to search using various systems such as Broadcast Encryption (BE), Attribute-Based Encryption (ABE), etc. These systems, however, do not allow various users to conduct the search procedure over various owners ' encrypted information. Some SE systems require a Proxy Server (PS) that allows various users to search. However, these approaches incur a huge computational burden on PS due to the repeated encryption of the user queries for transformation purpose to ensure that users' query is searchable over the encrypted data of multiple owners. Therefore, this project recommends a safe proxy server strategy to eliminate this computational burden on PS that conducts the search procedure without transforming user queries. This method also returns appropriate top-k records to user queries using a similarity method to Euclidean distance. This strategy is effective in terms of search time and precision based on the experimental study. This scheme does not allow making search operations over the data owned by multiple owners that is do not supports search operations in multiple owners and multiple user environments. So we proposed in this project half encryption-based multi-user keyword search over encrypted cloud data. In this project, the data owner creates an index for each document. It encrypts the document collection and sends the encrypted documents over to the cloud server. The words in the indices are partially encrypted with the owner's secret key and then these indices are sent to the proxy server. This project we have proposed two algorithms IBE algorithm to perform the Encryption. Top Rank, the files, and another algorithm is the TF/IDF algorithm which calculates the term frequency of each keyword.

Keywords: Searchable Encryption, Keyword searching, IBE Algorithm, ABE Algorithm, TF/IDF technics

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26 Survey on text-to-speech Kannada using Neural Networks

Paper ID V5I6-1159 · Pages 128-129 · Machine Learning

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In this paper, we have explained the different approaches of text-to-speech conversion for Kannada language using Neural Networks. Text-to-speech conversion (TTS) has a wide variety of applications like it serves as an effective aid to the visually impaired by offering a computer-generated spoken voice that would "read" text to the user. TTS can also be used as an interactive educational appliance, as an assistant, etc. The application field of synthetic speech is expanding fast while the quality of the TTS system is also increasing steadily. Text-To-Speech conversion using Neural Networks is found to be more accurate when compared to many other methods like Concatenation, Digital Signal Processing, Articulatory Synthesis, etc. The different approaches of

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neural networks that we have mentioned in this paper explain its own methodologies, its applications and also its pros and cons.

Keywords: Neural Networks, Kannada, TTS, Approaches

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27 Solar powered agricultural dryer

Paper ID V5I6-1185 · Pages 130-131 · Mechanical Engineering

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Sun-powered drying of horticultural item is significant and most practical response to the world's nourishment drawback includes decreasing the nourishment misfortune, that happens on account of various reasons like absence of fitting innovation, ill-advised development and treatment, absence of selling channels, ill-advised transportation, high post collect misfortunes, and so on., dispensing a nourishment misfortune from ten to four-hundredth. The nourishment conservation by star drying is that the exclusive method to decrease the nourishment misfortune that is being embraced for a few centuries.(M.V. Ramana Murthy ., 2008). various types of star dryers had been intended to beat this drawback. the kind of drier relies upon the product and subsequently the drying strategy required for that particular style of item. basically the drying strategy includes the relocation of water from within the product to be dried on to the surface for its dissipation and along these lines, it's a warmth and mass exchange improvement (P.Barnwal et al., 2008). The convective warmth move consistent is a significant parameter that decides the glow and mass move. The convective warmth moves steady changes from harvest to edit and in this way the method of drying. just if there should be an occurrence of unpracticed chilies the convective warmth one.31 W/m2 K, (Anwar et al., 2001a,b). the fundamental embodiment of drying is to reduce the wet substance of the product to review that thwarts disintegration among a careful measure of your time. Drying might be a twin strategy for - heat move to the product from the warming stockpile. What's more, mass exchange of wet from within the product to its surface and from the surface to the circling air (O.V Ekechukwu et al1999).

Keywords: Agriculture, Solar power, Mechanics, Agricultural dryer, Energy

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28 Cursor tracking by sensory organs for handicapped people

Paper ID V5I6-1167 · Pages 132-135 · Human Computer Interaction

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A vision primarily based Human–Computer interface is conferred during this paper. The utilized image process ways embrace digital camera for investigation the face, and example matching method-based eye region detection. SVM classification methodology is employed for classifying the attention movements. The

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classification of eye movements like eye open, eye close, eyeball left, and eyeball right movements area unit used for indicator high, bottom, left and right movement severally. The interface relies on a notebook equipped with a typical internet camera and needs no further lightweight sources. All of these devices need manual management and can't be utilized by persons impaired in movement capability. There's a necessity for developing different ways of communication between human and laptop that might be appropriate for the persons with motor impairments and would provide them the chance to become a section of the knowledge Society. In Hough rework, circular methodology is employed to regulate the indicator movements. This technique is employed for physically disabled persons to work with the computers effectively just by their face movements.

Keywords: HAAR technique, Image Processing, SVM classification

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29 The required engineering skills for saudi labor market after automation

Paper ID V5I6-1202 · Pages 136-138 · Engineering

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Ali Rizwan, King Abdulaziz University, Jeddah, Saudi Arabia

This paper aims to explore the required engineering skills in the Saudi labor market before and after automation. For this purpose, data were collected from 230 participants from different engineering sectors with a structured questionnaire. The data were coded and analyzed using SPSS software. The researcher found that the existing labor market skills are teamwork, verbal communication, willingness to learn, understanding, and taking directions for work assignments. Skills required after automation are: computer skills, technical skills, ability to use modern tools and equipment, the ability to design a process to meet desired objectives. The researcher recommends that curriculum reform as part of an automation strategy to improve labor market skills.

Keywords: Automation, Skills, Saudi Arabia

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30 Home made daily use personal care products

Paper ID V5I6-1184 · Pages 139-144 · Fashion Designing

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Personal care is a broad term used to refer to supporting with personal hygiene and toileting, along with dressing and maintaining your personal appearance. Personal care includes products as diverse as cleansing pads, colognes, cotton swabs, cotton pads, deodorant, eyeliner, facial tissue, hair clippers, lip gloss, lipstick, lip balm, lotion, makeup, hand soap, facial cleanser, body wash, moisturizer, talcum powder, toilet paper,

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toothpaste, facial treatments, wet wipes, and shampoo. As these products include mica, parabens, triclosan, fluoride and other harmful chemicals that cause skin cancers and other diseases, we have tried to find out a solution to end the usage of such chemical products in an effective way. Here we have prepared daily use personal care products like face powder, lip balm, kajal, soap, and toothpaste using natural ingredients. Ingredients used for preparation of face powder are-cocoa powder, arrowroot powder, cinnamon powder; lip balm-beetroot, vaseline, oil, vitamin E capsule; kajal-cyanthiliumcinereum, castor oil, anjanaston; aloe vera soap-aloe vera, soap base, basil leaves, basil leaf extract, vitamin E capsule, vaseline; toothpaste-coconut oil, baking soda, neem extract, turmeric powder and salt.

Keywords: Daily use personal care products, Face powder, Kajal, Lip balm, Aloe vera soap, Toothpaste

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31 Status and prerequisite of English proficiency for engineers- An update

Paper ID V5I6-1189 · Pages 145-149 · Engineering

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Communication is the universal attribute in human beings, its first trait being the exchange of information within. Language is the most common means of communication. The commanding status of English as a global language cannot be denied. English is the most frequently and extensively used language for business communication worldwide. A maximum part of the important content of the internet is in English though it facilitates translation options. A large part of important books pertaining to various disciplines, particularly science and technology are primarily published in English. In the engineering context, the professional world today essentiates the technocrats to be proficient in English. The last two decades have been the decades of globalization, because of the growing international commerce, financial and technological breakthroughs. The flux of innovations has united the issues or problems making the ones which were local, now becoming global. The technology world faces and is expected to deal with various issues at the global platform like cybercrime, identity theft, E-Banking Fraud, etc. In developing countries with the dominance of vernacular mother tongue, the usage of English is limited in students, this creates a gap in employability skills and hence creates a significant impediment in the hiring process of engineers with satisfactory technical skills. The futuristic technologies per se Artificial intelligence, 3D printing, blockchain, cloud computing, augmented and virtual reality, robotics and the like are driving us towards one world. Such a large-scale validation of English language could substantiate positive outcomes of grave issues on a multidimensional global scale and hence could further lead to unity of the world community, a true one world, which we often dream of.

Keywords: Communication, English, Engineering, Technology, Graduates, Global, Lingua franca, Employability, Linguistic, Proficiency

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32 Developement of poultry feed suplements for enhancing the productivity and perfoamance

Paper ID V5I6-1179 · Pages 150-154 · Animal Science

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Development of poultry feed supplements for enhancing productivity and performance The demand for protein source for humans in the form of chicken has been increased. Egg consumption has been recommended every day. So, people much depend on poultry food throughout the world. As per FAO (Food and Agricultural Organization) published data, meat production of 109,970 thousand metric tons in 2014 raised to 111,000 thousand metric tons in 2015 which is a 3% lower annual growth rate compared to the past 10 years. Largest poultry meat production is currently from the United States, China, European Union, and Brazil. As per FAO 2015 published data, it was expected that in 2024 the estimated meat production (x 1000 metric tons) of India will be 3521, which is very less compared to (US 24,424), China (23,112), Brazil (15,702). As per FAO, Egg production (x 1000 metric tons), India stands in the third position with 3835 which is less compared to the USA standing in the second position with 5636 and China at first position with 28,761. Poultry diets are formulated based on the nutrient requirements and their metabolism, checking the availability of nutrients from the feed ingredients, cost-effective. In developing countries, the unavailability of accustomed feedstuffs and an increase in the cost of the available feedstuffs are stopping the poultry productivity and it will be more in the future. So, this type of condition demands the immediate requirement of alternative feedstuffs that can be used on a wide range. To increase the poultry productivity, performance and healthy flocks, feed supplementations or additives are required instead of the daily feed uptake. Feed supplements provide constant energy, essential amino acids, proteins, vitamins and minerals with water or feed. Major feed additives used are Enzymes, Antibiotics, Coccidiostats, pigments, Antioxidants, Antifungals, etc. Antibiotics are used as growth promoters (AGP’s) in the past 50 years. The usage of AGPs in the feed lead to antimicrobial resistance development and passage of antibiotic resistance genes to human microbiota from animals. In this context, the European Union has banned the usage of antibiotics from January 1st, 2006 and made legislation to delete antibiotics from their European Registry of Feed additives. Some countries still using these AGP’s affecting their exports in the global market. AGP’s can be replaced by using direct-fed microbial (probiotics), Prebiotics - Fructooligosaccharides (FOS), mannan oligosaccharides (MOS), organic acids, plant extracts, proteins & peptides etc., The ban of the antibiotics raised the need of more feed supplements that can help in growth, health, productivity in terms of meat and eggs, fighting diseases caused by bacterial, viral, fungal & protozoans and combat the stress during transportation, vaccination, de-beaking, housing conditions, lighting etc., The present usage of feed supplements in the market are negligible. Feed supplements help in overcoming the Feed Conversion Ratio (FCR) issues and improves the feed intake that avoids the wastage. Feed supplements and additives are used in small amounts and careful while mixing with the feed for uniform distribution. The objectives involved in the development of feed additive depend majorly on the selection of individual feed additives and their combination without the loss of their efficacies is a challenge. Finally formulating the essential nutrients and non-nutritive additives that are non-essential but important depending on the requirement in the diet and flock conditions helps in the improvement of health and performance.

Keywords: Probiotics, Chicks, Feed supplements

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33 Smart irrigation system for supplying and removing water using IoT technology

Paper ID V5I6-1193 · Pages 155-159 · Computer Science And Engineering

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Agriculture always had been an integral part of the world and the backbone for developing countries for the Indian Subcontinent, which plays an important role in the economic growth of the country. Agriculture is the largest source of livelihood for the developing country nearly about 70 percent of its rural household still depends on agriculture. It has been more than 50 years of the green revolution but still, farmers are dependent on the rainwater. The government has spent millions and billions of rupees over farming but still, the condition of farmers and farming is disappointing. So, to overcome this gigantic problem farmer should acquire new technologies in which it will help them for smart farming. So, our system is used to scrutinize the temperature of the agriculture field based on the temperature sensor value it checks whether the environment is summer or winter, based on that crops should be planted in the field. The system checks the moisture of the soil with the help of soil moisture sensor then the system automatically supplies water to the field whenever the moisture of the soil is less than a threshold value. It also pumps out extra water from the field when moisture value is more than a threshold value. For this, we have used a temperature sensor to scrutinize the temperature and soil moisture sensor to take a reading of the moisture of soil and relay to switch ON/OFF the water pump. Also, a GSM Module is used for providing information about the field to farmers and LCD (Liquid Crystal Diode) is used to display the data of the field over the system. We have also used Arduino UNO to code our structure. The main objective of our system is to reduce the human effort in the field of agriculture and control over the gigantic problem of water in the field of agriculture.

Keywords: Arduino Uno, Water supply pumps, Relay modules, GSM Module, Soil moisture sensor, Temperature sensor, Humidity sensor

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34 Basic issues about organization and apparatus of the current political system in Vietnam Vu Hong Van

Paper ID V5I6-1201 · Pages 160-166 · Political Science

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The socialist political system in Vietnam is a whole including the Communist Party of Vietnam, the State of the Socialist Republic of Vietnam, the Vietnam Fatherland Front and socio-political organizations working to maintain and protect the power and interests of the working class, the working people and the Vietnamese

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nation. With three basic features: unification, democracy, and unity, the Vietnamese political system has shown. In the course of operation, there are issues that require the Vietnamese political system to innovate to meet the requirements of the country and the world. This study focuses on elucidating the organizational structure, advocacy process as well as proposing some solutions to make the Vietnamese political system work more effectively.

Keywords: Basic Issues, Organization, Apparatus, Political System, Vietnam

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35 Design and fabrication of body heat balance jacket

Paper ID V5I6-1204 · Pages 167-169 · Health Care And Human Comfort

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The objective of proposing this topic as a project is the well-being of the human being. And out of the various factors affecting; Temperature is one out of them which is irresistible when we are talking of human comfort whether it is summer, winter or rainy. A stable core body temperature is essential for proper and optimal function so for maximum efficiency of body temperature needs to be within limits.

Keywords: Heat-jacket, Heat balance, Metabolic, Comfort, Peltier module

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36 An experimental investigation for the rate of heat transfer in double pipe heat exchanger inside helically coiled tube

Paper ID V5I6-1218 · Pages 170-174 · Mechanical Engineering

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The effect on heat transfer and pressure drop is characterized by arranging tubes in helical shape with a different pitch, the experiment is conducted. During conducting experiment the tubular region is maintained by varying the mass flow rate of fluid with the same temperature. After the experiment, the calculated results are obtained, for the same working condition. The average heat transfer rate is increased by 18% by making a tube in helical coil shape over a straight tube. At the same time, the overall heat transfer coefficient also increased by 18% by providing a helical coil shape over a straight tube. Also, the helically coiled tube plays an important rule to improve the heat transfer rate and overall heat transfer coefficient, also raise in pressure drop acrossthe flow. The number of turns and diameter of the coil is important to create turbulence inside the coil. Theincrease in heat transfer rate with an increase in pressure drop. By comparing with present work we canincrease the heat transfer rate by inserting the spring inside the helically coiled tube and also increases by achange in fluid properties. As compared with previous work on the same experiment the helically coiled tubewith the minimum pitch we can achieve the high thermal performance

Keywords: Helical Coil, Heat Transfer coefficient, Reynolds number, Nusselt number, Pressure drop, Heat transfer rate, Thermal performance

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37 Skin cancer detection using Digital Image Segmentation

Paper ID V5I6-1168 · Pages 175-177 · Computer Science Engineering

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Kotur Guna Pragna, Student, Vellore Institute of Technology, Vellore, Tamil Nadu

The detection of skin cancer in the earlier stage is very important and critical. In recent days, skin cancer is seen as one of the most Hazardous forms of the Cancers found in Humans. Skin cancer is found in various types such as Melanoma, Basal and Squamous cell Carcinoma among which Melanoma is the most unpredictable. The detection of Melanoma cancer in an early stage can be helpful to cure it. Computer vision can play an important role in Medical Image Diagnosis and it has been proved by many existing systems. In this paper, we present a computer-aided method for the detection of Melanoma Skin Cancer using Image processing tools.

Keywords: Melanoma, Image processing, Skin cancer, Image segmentation, Contour tracing, Edge detection

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38 Measuring employee motivation levels in an educational organisation

Paper ID V5I6-1213 · Pages 178-185 · Industrial Psychology

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The study examined the motivation levels of employees of an educational institution. Employee motivation levels tend to have an influential impact on performance levels of the workforce as well as the success of the organization. The employees have ranked twenty factors of motivation on a constructed questionnaire and the results have further been interpreted in order to move beyond the usual ways of using pay as a motivating

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factor and suggesting better ways in order to keep the workforce motivated, keeping in mind the organizational policies of the institution.

Keywords: Employee motivation, Factors, Questionnaire, Results

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39 Application of deep Neural Networks for object detection in satellite images

Paper ID V5I6-1221 · Pages 186-191 · Computer Science

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The rapid growth in satellite imagery has helped scientists understand the Earth better. The improved understanding of the Earth makes it possible for scientists to perform better in all activities that range from disaster management in the form of mobilizing resources to comprehend global warming by monitoring its effects. The major limitation of this achievement is the assumption that significant features in satellite images, like buildings, roads, trees, or water bodies, can be easily identified, either manually or semi-automatically, but always perfectly. In this paper to overcome this limitation, we use different convolutional neural networks with modifications such as proposed PSPNet, U-net architecture, Inverted pyramid and XGBoost algorithm for accurately detecting specified features in satellite images from Defense Science and Technology Laboratory (DSTL) database. Automation of feature detection in satellite images is not only useful in making smart and quick decisions, but also in bringing innovation in the application of computer vision methodologies to satellite imagery.

Keywords: Satellite imagery, Image classification, Convolutional Neural Networks

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40 Performance of fusion algorithm for active sonar detection in underwater acoustic reverberation environment

Paper ID V5I6-1224 · Pages 192-196 · Signal Processing

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In the active SONAR system, the detection of a target is performed by Matched-Filter processing proceeded by a Constant False Alarm Rate (CFAR) thresholding method. CFAR alone is a not a competent method, to annihilate the invalid echoes. This method on sole does not attain the best pursuance under the reverberation scenario in the non-homogeneous condition of the acoustic environment. In this, the paper Fusion algorithm is recommended for active sonar application, where the CA-CFAR and Support Vector Machine (SVM) based classification method are together used to annihilate the invalid echoes and simultaneously improve the detection of valid echoes. In this paper, a comparison of linear and non-linear SVM with the CA-CFAR method is proposed for elevating the performance of detecting the valid echoes and annihilates the invalid echoes. The interpretation of the algorithm is accomplished using measured data.

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Keywords: CA-CFAR, SVM

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41 "A study welfare facilities provided and employee satisfaction in Mahavitaran with special reference of Satara district"

Paper ID V5I6-1230 · Pages 197-200 · Management

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Energy is an engine of economic growth and future growth will depend on availability and quality of energy. India is the world's fifth-largest energy producer and seventh-largest energy consumer. Electricity is the 'concurrent' responsibility of the central and state governments. There is Dominance of public sector institutions in the power sector the private participation has been increasing after the adoption of new economic policy. Combination of natural monopoly and oligopolistic market structure. Electricity is a basic need for domestic, agriculture and industrial sector of any economy. hence study on welfare facilities provided and employee satisfaction is required which deeply affect on organization and policy implementation

Keywords: Employee performance, Welfare facilities

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42 ESL learners' vocabulary strategy use and learning perception

Paper ID V5I6-1165 · Pages 201-212 · Education

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Vocabulary is an important aspect of second language acquisition. It plays a vital role in language learning. However, it has become the highest challenge that ESL learners faced in the process of language learning. This can be specifically focused on second language learning. In the need of high vocabulary in the second language, vocabulary learning strategies are suggested to be introduced among ESL learners. This enlightens of vocabulary learning strategies among ESL learners believed to have an improvement in vocabulary learning. This study employed a qualitative research design. It is conducted in need of identifying strategies used by learners. This study examined a number of strategies used by pupils from schools located in suburban areas. Besides, the interest of pupils towards vocabulary learning also examined in this study. Furthermore, this research was conducted to test whether there is any significant difference between male and female ESL learners in vocabulary learning perception. A set-off adopted version questionnaire was given to 100 samples which consist of 50 males and 50 females to gather the results of this study. The samples for this study were selected based on a random sampling method. The findings of the study showed that both male and female students have positive perceptions towards vocabulary learning and they preferred social strategy highly in their vocabulary learning.

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Keywords: Vocabulary, Language acquisition, Second language, Perception, Strategies

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43 Development of green marketing strategy for an airline in Saudi Arabia

Paper ID V5I6-1186 · Pages 213-215 · Green Magketing

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Green Marketing (GM) is a concept that refers to the process of marketing services or products based on its environmental performance or environmental benefits. Vision 2030 of Saudi Arabia emphasizes the green movement and most of the recent projects support the sustainability of the green concept. Commercial airlines all over the world contribute significantly to the environment. The airline in our research is being one of the largest airlines in the world has to play an effective role in the green movement. The present study focuses on the development of green marketing strategies for the airline. A questionnaire comprising of twenty-five questions was distributed online for the purpose of data collection. Likert- type scale was used to get responses from 700 participants, who were the staff members, customers and other stakeholders of the airline. Statistical techniques of ANOVA, F-test, t-test, and Chi-square test were used to carry out the analysis of data. Results revealed that the majority of the participants are not willing to participate either financially or by limiting their choices to reduce the impact of aviation, authorities, and airlines should take the responsibility and do more to reduce the impact of aviation on the environment. Results also revealed that there is a clear influence of age, gender, and education on evaluation airlines' activities toward the environment, but there is no influence of management level, frequent traveling or aviation background on evaluating these activities. The basis of the developed strategy is green positioning where the airline repositioned to be a green airline , then the airline should invest and develop the main four pillars which are green product, green place, green partnership, and green policy, finally, the airline should communicate all these initiatives to the stakeholders through green promotion activities.

Keywords: Green Marketing, Marketing, Green, Environment, Aviation, Airline

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44 Smart elevator using facial recognition

Paper ID V5I6-1188 · Pages 216-217 · Image Processing

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Identifying a person by an image has been popularized through mass media. Facial recognition is a currently used technology and has a wide range of applications. This paper presents a methodology for maintaining the security and increasing the building automation, by incorporating facial recognition in elevators. This project solves problems using the Internet of things, IoT.

Keywords: Facial recognition, Building automation, Elevator

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45 Fabrication of versatile agro machine

Paper ID V5I6-1215 · Pages 218-220 · Mechanical Engineering

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The design of versatile agro machine will help Indian farmers in rural side and small farm. It will reduce the cost of seed feeding, pesticides sprinkling and crop cutting the field and will help to increase economic standard of an Indian farmer. Multiple simultaneous work by a single machine.This Project presents work on design of a new agricultural multipurpose machine to be used for various applications. As global competition is pressing farmers on many fronts, mechanized agriculture has become one of the important modern agricultural methods. In India 60% population involved in agricultural work, Conventional mechanized systems may increase productivity but are less adaptive and flexible. As a consequence, there have been initiatives in developing advanced mechanized systems. We are evolving a multipurpose machine for farm, which can easily use for digging, seeding, spreading fertilizer.

Keywords: Ploughing, Seeding, Sprinkling, Levelling

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46 DC motor controller using Arduino and L298N motor driver

Paper ID V5I6-1236 · Pages 221-225 · Electronics And Communication Engineering

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The electric drive systems used in industrial applications are increasingly required to meet higher performance and reliability requirements. The DC motor is an attractive piece of equipment in many industrial applications requiring variable speed and load characteristics due to its ease of controllability. Microcontrollers provide a suitable means of meeting these needs. Certainty, part of the recent activity on microcontrollers can be ascribed to their newness and challenge.

Keywords: Arduino, L298N, Microcontroller, DC motor driver

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47 Medication administration routes: An overview

Paper ID V5I6-1211 · Pages 226-229 · Pharmaceutical Sciences

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The route of administration for a drug should be particular to attain a useful concentration at the site of action as suitably as possible. Important subsidiary objectives may be rapidity of onset and duration of drug effect and, in some instances, the selectivity of action. The route of administration is the method through which the dosage form is administered into the body for the treatment of various diseases and disorders. Various routes of administrations play a clear role in the bioavailability of the active drug in the body. In the current review, these routes are integrated with their advantages and limitations. This is an attempt for the initials of the field to bring into the light with the routes of administrations with their significances. Many drugs will elicit effects of similar magnitudes when the same dose is given by a number of different routes. However, there are so many instances when this is not true that these can be important traps for the unwary pharmacologist, toxicologist, or clinician. Several drugs with effects that vary according to the route of administration.

Keywords: Bioavailability, Concentration, Drug, Route

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48 Enhancing understanding about civil liability to the inland waterway transport vehicles owners on Kien Giang Province

Paper ID V5I6-1231 · Pages 230-236 · Law

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Nguyen Dang Son, Nguyen Dang Son, Tra Vinh University, Tra Vinh, Vietnam

The paper research on the status of observance of legal regulations of owners of waterway traffic in Kien Giang province through field surveys as well as inquiries on results of inspection and sanction of waterway owners of the Marine Department. On the basis, the paper proposes measures to raise civil liability for waterway owners in the province. The article explores the reality of observing the legal regulations of waterway owners in Kien Giang province through actual surveys as well as finding out the results of the inspection and sanctioning of waterway vehicle owners of the water police room. On that basis, propose solutions to improve civil liability for waterway vehicle owners in the province.

Keywords: Civil liability, Inland, Waterway Transport, Vehicles, Owners, Kien Giang Province

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49 Adaptive traffic signal

Paper ID V5I6-1244 · Pages 237-239 · Computer Science

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The current traffic control systems in India are inefficient due to randomness in the traffic pattern throughout the day. The traffic signal timers have a fixed time period to switch traffic between different directions. Due to this, the vehicles have to wait for a long time span even if the traffic on the road is relatively less. If the traffic signal timer can be programmed to be manipulated with the continuously varying traffic density i.e. the count of vehicles on the road, the problem of traffic congestion can be reduced to significantly lower levels. Thus, the objective is to design an adaptive traffic control system algorithm with the use of an image processing system.

Keywords: Traffic control system, Image Processing, Count of vehicles, Traffic Signal Timer

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50 Heterogeneous Leach in 3-dimensional Wireless Sensor Network using gateway

Paper ID V5I6-1250 · Pages 240-247 · 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 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. 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 energy-efficient and energy conservative protocol design to increase the data rate.

Keywords: Wireless Sensor Network, A-Leach, Heterogeneous network, Cluster head

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51 Detection of the bone fracture using image processing methods in MATLAB

Paper ID V5I6-1252 · Pages 248-252 · Medical Electronics

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The bone fracture is a not unusual problem in human beings occurs because of excessive pressure is carried out on bone or simple accident and additionally because of osteoporosis and bone cancer. Therefore the correct prognosis of bone fracture is crucial elements in clinical subjects. In these paintings, X-ray/CT photos are used for bone fracture analysis. The goal of this task is to increase an image processing based totally efficient machine for a fast and correct category of bone fractures based totally on the facts won from the x-ray / CT. Images of the fractured bone are acquired from sanatorium and processing strategies like pre-processing, segmentation, face detection, and function extraction strategies are adopted. The processed pics may be in addition categorized into the fractured and nonfractured bone and evaluate the accuracy of various strategies. This task is completely hired MATLAB as the programming device for loading photographs, photo processing, and user interface improvement. Results acquired to display the overall performance of the bone fracture detection system with a few barriers and top accuracy. FFT technique in MATLAB become carried out to the generated sound waves to have a look at the distinction between cracked and healthy bone by means of applying 200 Hz of the sampling frequency. The device might be useful for doctors and public alike on account that it's miles transportable, realistic, mobile and low cost. It has to be stated that the proposed device is not supposed for a substitute of widespread methodologies like X-Ray but alternatively will serve to be used as a preliminary detection segment, the fractured element is selected manually to conquer this disadvantage, the proposed technique detects the bone fracture automatically. The result shows that the proposed method of fracture detection is higher. The results show that algorithm is 89.6% correct and efficient.

Keywords: Pre-processing, Segmentation, Edge detection

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52 A study on detection of Cross Site Scripting (XSS) attacks

Paper ID V5I6-1225 · Pages 253-258 · Computer Science And Engineering

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The advancement in internet technology has changed the daily activities of human life. The information available here is ample and is available with a single click. In present-day, most of service-oriented companies use web applications to improve services to their clients. With the increase in web users, web attacks are also increasing due to the vulnerabilities in applications. Cross-Site Scripting (XSS) is a computer security vulnerability found in web applications. Hackers, use this vulnerability in web applications to steal identity, credit card details, etc. According to the Internet Security Threat Report 2019(ISTR 2019), there is an increasein web attacks by 56 percent in 2018.

Keywords: Cross site Scripting, XSS

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53 Modified cockpit door lock system

Paper ID V5I6-1249 · Pages 259-261 · Aeronautical Engineering

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Passenger life is more precious, the safety of aircraft dominantly depends on the cockpit security systems. It is essential to enhance the cockpit security due to increasing threats day-by-day. Implementation of advanced systems such as fingerprint scanner, an auto alarm is required to keep the cockpit as well the airplane safer from any sort of danger especially in bigger aircraft carrying 100-800 passengers. This Project intends to enrich the aircraft safety to its maximum by implementing better door lock systems using highly advanced Arduino Processor combined with a fingerprint scanner.

Keywords: Arduino, Fingerprint, Cockpit safety

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54 A study on rain streaks removal from an image in outdoor vision systems

Paper ID V5I6-1257 · Pages 262-267 · Computer Science

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The quality of captured images will be highly affected by an abnormal weather like rain or snow. Such bad weather conditions can degrade and corrupt the performance of various outdoor vision systems like CCTVs, traffic cameras etc. Even if many bad weather conditions can affect the quality of captured images, rain affects the image in a more negative way because, it is observed as bright streaks. Because of the negative effect of rain on outdoor vision systems, rain removal is an important problem. Detecting rain streaks accurately is a difficult task since rain has no particular location in an image. Rain removal has been an active research topic over many years and several techniques has been proposed. From all these studies, rain removal from an image can be classified into four main categories. The first category is simply filtering based whereas the second category builds models for rain streaks. In the third category, a 2-step processing is performed for rain

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removal and in the fourth category, deep learning techniques are used. So, in this paper, we have done a detailed study on the effects of rain on images and various rain removal methods.

Keywords: Rain Streaks, Rain Removal, Outdoor Vision Systems, Dynamic Components

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55 Chatbot for college using Google Actions

Paper ID V5I6-1261 · Pages 268-272 · Artificial Intelligence

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The project Chatbot for college using Google Actions is a mobile application that presents a solution to the query of the users. Users just must question the bot and Chatbot will answer user's queries. Students can ask questions the usage of any English textual content or Voice. There is not any precise layout, the consumer has to follow. The System uses AI to answer the query supplied via Google moves for the student questions. The gadget replies using a powerful technique which is a Graphical User Interface which implies that as if an actual character is speaking to the person

Keywords: Google Actions, Artificial Intelligence, Machine Learning, Dialog Flow, Query

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56 Survey on document image binarization

Paper ID V5I6-1266 · Pages 273-275 · Computer Engineering

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Segmentation of text from badly degraded document images is a very challenging task due to the high inter/Intra variation between the document background and the foreground text of different document images. Image processing and pattern recognition algorithms take more time for execution on a single-core processor. Graphics Processing Unit (GPU) is more popular now-a-days due to their speed, programmability, low cost and more inbuilt execution cores in it. The main goal of this research work is to make binarization faster for recognition of a large number of degraded document images on GPU. In this system, we provide a new image segmentation algorithm that each pixel in the image has its own threshold proposed. We are doing parallel work on a window of m*n size and extract object pixel of text stroke of that window. The document text is further segmented by a local threshold that is estimated based on the intensities of detected text stroke edge pixels within a local window

Keywords: Pixel classification, GPU, Parallelization, Binarization

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57 Frauds in Indian banking industry

Paper ID V5I6-1265 · Pages 276-284 · Finance

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The Indian banking sector has full-fledged appreciable growth and changes since the alleviation of the economy in 1991. Though' the industry is usually well regulated and supervised, the world suffers from its own set of challenges once it involves moral practices, money distress and company governance. This study endeavors to hide problems like banking frauds and mounting MasterCard debt, with a close Analysis victimization secondary information (literature review and case approach) moreover as an interview-based approach, spanning across all players concerned in reportage money misconduct. The report touches upon the case of rising NPAs within the past few years across varied regular business banks, particularly public sector banks. The study finally proposes some recommendations to cut back the future prevalence of fraud in Indian banking sector. The believability of third parties like auditing corporations and credit rating agencies is additionally questioned within the study and is believed to be a major contributor amongst alternative causes, like an oversight by banks and inadequate diligence.

Keywords: Non-Performing assets, Stressed assets, Banking frauds

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58 Work absenteeism among health assistants in secondary care hospitals, Batticaloa district, Sri Lanka

Paper ID V5I6-1260 · Pages 285-289 · Medical Administration

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Background: Absenteeism in the health sector is frequently referred to as the loss of scheduled time due to unscheduled work absence which has remained a long-standing challenge worldwide. Approval for the leave should be obtained from Heads of the institution before the leave with acting duty. However, being absent from work without prior information has been a major issue among health assistants in hospitals. This study was aimed at analyzing the absenteeism among health assistants in Base Hospitals in the Batticaloa district. Materials and methods: Descriptive cross-sectional study was carried out in all four Base Hospitals (BHs) in Batticaloa District. Data collection was carried out in May 2019 by self-administered questionnaire. Results: One hundred and fourteen (49.1%) out of 232 HA had at least one spell of absence in the year 2018. Among the four BHs in the Batticaloa district, BH Eravur showed the highest and BH Kaluwanchikudy showed the lowest absentee percentage with statistical significance (P

Keywords: Absenteeism, Health Assistants, Workforce

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59 Combining laboratory-based learning with problem-based learning in undergraduate PLC course at Technical Colleges

Paper ID V5I6-1254 · Pages 290-292 · Education

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The necessity of accomplished engineers and technicians, who are competent in handling the problems of the emerging industry, brings the conventional teaching approaches into question. Engineering technology students should be skilled to confront the technical challenges they will come across in their professional careers by using innovative teaching methods based on projects and real industrial applications. In this study, Teaching-Learning Environments for PLC Program were enhanced, as it is taught to the Electrical and Electronic department students in the Technical Colleges. The emphasis is on the content of a course unit, particularly the choice of the learning methods and its effect on the students. This complete PLC program combines laboratory-based learning with a problem-based learning (PBL) approach. It is also aimed to develop the students' practical skills and meet the requirements of the labor market. Data collected from the labor market and discussed with the academic experts guided us to set our approach, develop the program and improve the students' practical skills. Coming into practical, we have received a lot of positive feedback from students after carrying out a survey and before determining its educational effectiveness.

Keywords: Laboratory-Based Learning, Problem Based Learning, Technical Colleges, Labor Market, PLC Course

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60 Networking tools for cost optimization

Paper ID V5I6-1273 · Pages 293-295 · Construction Project Management

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Cost and time are the main aspects to be considered in every project. The main objective in the construction field is to complete every project on time, within budget and quality. Time and cost are related to each other and it is very important in achieving project objectives. Cost optimization is an important issue in construction project management. Loss of time always increases cost and saving of time can provide profit to all the parties in project. We will be studying different methods of time and cost optimization with the objective of minimizing the project cost and duration an analysis is performed to identify the relationship between time and cost. the availability of expert is the main problem faced by contractor in optimizing the cost. The duration of the project and changing environment are the least problems faced by the contractor in optimizing the cost.

Keywords: Cost Optimization, Project Management, Critical Path Method, Pert, Network Crashing

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61 The study of English language proficiency among Malay form 2 students

Paper ID V5I6-1268 · Pages 296-299 · Education

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This study was conducted to identify factors that contribute to poor performance in English subjects by students of Form 2 of Sekolah Menengah Kebangsaan Raja Abdullah in Kepong. This study involved 30 respondents consisting of male and female Malay Form 2 students, conducted in a quantitative manner. The researcher obtained information through the distribution of questionnaires to randomly selected respondents and from an analysis of examination scores. The questionnaire is divided into two parts; Part A and Part B. Part A is related to the respondents' background, while Part B involves several questions that are related to this research. Base on the students' examination score, respondents were students who scored 40 and below in the exam. Findings showed there are several factors why Form 2 Malay students of SMK Raja Abdullah do not master English subjects; reasons being socio-culture, environment, family, peers and themselves. With this study, it is hoped that all parties involved can play a part to contribute to overcoming this issue

Keywords: Academic Performance, Malay Students, Factors, English

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62 Study of social media and their impact on performance of college staff and student

Paper ID V5I6-1262 · Pages 300-302 · Social Media

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This research examined the impact of social media on Staff and College students, their mental health and academic performance and reducing social media addiction from youth. For this we recommend attachment towards the Library, reading books, actively participating in sport, cultural activity, meditation, and Yoga. In this study we used the Survey method. We collected different type of information from College Staff and final Year students and we found that most of the candidates spent their valuable time with social media. This affected their academic performance, mental health and relation with community. Due to loneliness, physiological effects are observed and frustration that leads to wrong habits. Candidates give unnecessary importance to social media and overall negative impacts are visible. In this research, we have classified these candidates and the new experiment was done on them. We obtained good results

Keywords: Social Media, WhatsApp, Facebook, Twitter, Instagram, Yoga, Mediation

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63 Detection of islanding condition in medium voltage network with distributed generations penetration: A review on various techniques

Paper ID V5I6-1269 · Pages 303-315 · Electrical Engineering

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With the increased growth rate of the population their demand for electrical power usage in terms of basic necessities to keep their successful lifestyle also increases. To fulfill this requirement distributed generation (DG) play a vital role in the generation of electrical power. The distribution network which usually consist of the medium as well as low voltage networks on the basis of research analysis which mainly focuses on medium voltage network. The main fundamental objectives in this research work are to support the increased load growth, enhancement of reliable power operation, the better quality of power, network prevention from contingencies and line losses in the power system. One of the main issues in this research work is islanding detection, a situation in which a portion of the network is detached from the central main network yet to be energized by the distributed generation. To detect such situation under different load conditions a case study is done in which different techniques are commonly used that uses different relays which are under and over for voltage, current, frequency, vector surge and rate of change frequency (ROCOF). To analyze the performance of these techniques for the non-detective zone (NDZ) and time of operation MATLAB / Simulink software's are used to perform the simulation.

Keywords: Distributed generation, Rate of change of frequency, Non-detective zone, Islanding detection

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64 Design and testing of a helicopter propeller performance

Paper ID V5I6-1264 · Pages 316-319 · Aeronautical Engineering

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In order to develop the infrastructure (propeller performance test rig) and fulfil the requirement of University syllabus, an approach has been made to design and testing of a helicopter propeller based on the slipstream theory and blade geometry of an aerofoil for study purposes. The test rig was successfully fabricated and tested in the wind tunnel laboratory. The geometry of the propeller, the height of the blade 0.765m, Chord at root 12.8 mm, mean 13.8mm and tip 6.94mm, the thickness of the blade at root 14mm, at mean 9mm and tip 2.55mm have been chosen from the existing conventional blade. This is the in-house project and successfully carried out with small funding support from the present management of the Institution . The angle of attack from 8.2- 31 degrees has been chosen from the blade. The propeller efficiency of 78% has been achieved by conducting a series of experiments in the test rig. Since the test rig was established for conducting the student’s experiments and hence we used only a U-tube manometer connected to Pitot tube for measuring flow and maintained a constant speed of the propeller around 500 rpm. Advantage of this test rig was simple in

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design and operation, an absolute requirement of this test rig because of the no suppliers came forward to supply the rig for the student's experiments, reduced vibrations and very least-cost method and economics. Theoretical pressure distribution of the propeller has been studied based on the Euler energy equations by using commercial NISA compressible fluid package and results were compared with the measured results found within the acceptable limits. Presently, Aeronautical engineering branch students conducting experiments using this test rig.

Keywords: Propeller, Development test rig, NISA CFD package

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65 Climate modelling and climate error

Paper ID V5I6-1285 · Pages 320-321 · Climate Change

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Data reveals that all the Robotic Tectonic Forces & Plates of Earth are controlled by Mother Computer. All the Robotic Tectonic Forces / Driving Forces of Plate Motion i.e. Driving Forces due to Earth Rotation, Driving Forces due to Earth Gravity, and Driving Forces due to Mantle Dynamics, etc are attached with Mother Computer. The Errors in Climate like Flooding, Temperature Rise, Volcanic Eruptions, Cyclone, and Earth Quake, etc are due to the imbalances in these Robotic Tectonic Plates controlled by Robotic Tectonic Forces. Climate Modelling i.e. Climate Coding in Mother Computer helps to make her Robotic Tectonic Forces & Plates Strong and rectify the Errors / Weakness in Robotic Tectonic Forces & Plates. The Chip like features of Earth helps her to take signals like Wave Energy from Mother Computer and Climate Coding helps in making the signals stronger and thereby helping Mother Computer to control the Robotic Forces & Robotic Plates of Earth. Climate Modelling also helps to provide a Multi-Dimensional Information of Earth through Satellite, which helps to predict the Climate Errors to occur in the future.

Keywords: Robotic tectonic forces, Robotic tectonic plates, Climate modelling, Climate error

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66 Securing healthcare system using quantum cryptography mechanism

Paper ID V5I6-1293 · Pages 322-324 · Network Security

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In today’s fastest-growing life, all need to be more secure in terms of advancement in technology. Everything is going to be a part of digitization. In this, almost everyone is using online storage for storing their personal and important and official secret information. To sustain integrity there should be trustworthy services must be carried out in the back end. Online security has been provided for the cloud with a very powerful privacy

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system. But still, there is a possibility of different interrupts in terms of stacks like DoS, Denial of Service attack can happen any time to break the normal flow of service. Henceforth, this paper will provide a strong security system for data storage with double encryption format and a more complex structure, for we will express the algorithm through the quantum cryptographic environment to use under the homomorphism technique of modern cryptography.

Keywords: Encryption, Quantum Key, Photon, Decryption, Cryptography, Polarization

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67 Improving fault tolerance and network lifetime using relays assisted data forwarding in WSN

Paper ID V5I6-1290 · Pages 325-329 · Computer Science And Engineering

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Wireless sensor network plays a pivotal role in gathering useful data through sensor nodes and using this information for efficient information processing. The supervision of these nodes, therefore, requires optimized algorithms for efficient data capture, data processing, and information retrieval. To amplify the lifespan of the nodes, the researchers in the past have adopted for the clustering-based approaches. In this paper, the route maintenance mechanism has been defined where each sensor node and CHs locally select new disjoint routing paths/routes in the presence of node/link failures. This technique proposes a modification to an existing scheme by selecting the cluster heads in advance before the start of a new round of data gathering. This helps to avoid the broadcasting of ADV packets in the network. In addition, MDEEHC also allows the parent cluster heads to choose relay nodes from their clusters. These relay nodes are used to transmit the data of the child CH to the base station, thus reducing the load over the parent CH. we have implemented DEEHC and modification to the existing DEEHC clustering algorithm. DEEHC defines the formation of k-vertex disjoint paths from cluster members to cluster heads and from CHs to sink node or base station. This procedure selects cluster heads considering the remaining energy of the nodes as prime factors. M-DEEHC modifies the cluster formation of the DEEHC algorithm as well as modifies the way the data is communicated from child cluster heads to the BS. The performance of the network was analyzed based on throughput, remaining energy, and packet delivery ratio.

Keywords: DEEHC, Relay, ADV, LEACH Network, CH, Sensors

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68 Strand Beest Bicycle

Paper ID V5I6-1300 · Pages 330-333 · Mechanical Engineering

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In this research paper, we are describing a new feature and technology bicycle. We make this bicycle by adding the Jonson linkage mechanism in the normal bicycle. And like the other bicycles, there is a normal wheel in the rear and front side of the bicycle. When bicycling on sand (beach) or ice surface we are going to use a linkage

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mechanism and when bicycle on normal road surface we use the rear wheel on work. We use Gearbox in bicycle to transmit power to both the linkage mechanism and rear wheel of the bicycle at different times.

Keywords: Strand beest bicycle, Jonsen linkage, Gearbox, Linkage mechanism

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69 Analysis on methods of image dehazing- An assessment

Paper ID V5I6-1292 · Pages 334-339 · Computer Science And Engineering

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A literature survey is important for understanding and gaining much more knowledge about the specific area of a subject. The outdoor images captured in inclement weather are degraded due to the presence of haze, fog, rain and so on. Images of scenes captured in bad weather have poor contrasts and colors. This may cause difficulty in detecting the objects in the captured hazy images. Due to haze, there is trouble for many computer vision applications as it diminishes the visibility of the scene. This paper presents a study about different image dhazing methods to remove the haze from the hazy images captured in real-world weather conditions to recover a fast and improved quality of haze-free images. There is an improvement in terms of contrast visible range and color fidelity. All these techniques are widely used in many applications such as outdoor surveillance, object detection, underwater images, etc.

Keywords: Outdoor images, Dhzinig, Hazy images, Transmission map, Polirazation, Dark Channel Prior (DCP), Improved DCP (IDCP)

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70 Liver enzymes in patients with Type 2 Diabetes Mellitus: A cross sectional study

Paper ID V5I6-1301 · Pages 340-341 · Medicine

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Type 2 diabetes patients will have a higher incidence of abnormal liver enzymes than individuals who do not have diabetes Aminotransferases, such as alanine aminotransferase and aspartate aminotransferase serve as a marker of hepatocyte injury. Alkaline phosphatase, γ-glutamyl transpeptidase, and bilirubin act as markers of biliary function and cholestasis. Albumin and prothrombin reflect liver synthetic function. The aim of our study was to assess the profile of liver enzymes in subjects with T2DM. Materials and methods: It is a cross-sectional study, where 100 Type 2 diabetes patients attending the Medical OP, NRI General Hospital aged between 40 – 69 yrs were included in the study. The blood sample was collected from all the patients to analyze FPG, PPPG and liver enzymes. The data were analyzed and presented as means ± SD. Statistical analyses were done using t-tests, Pearson's correlation. $P < 0.05$ was considered significant. Results: In 47% of Type 2 diabetes patient's elevated liver enzymes were seen. Mean levels of liver enzymes were higher in men than those in women (26.0 ± 24.8 vs. 21.4 ± 16.0 IU/l in AST, 32.8 ± 20.1 vs. 26.3 ± 13.1 IU/l in ALT), but in ALP, bilirubin and albumin

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levels there is no mean elevation and no significant difference between male and female. Conclusion: In this study, we found the highest incidence of mildly elevated transaminases in Type 2 diabetes patients. Increased activity of liver enzymes, particularly ALT was associated with an increase in developing insulin resistance and further makes diabetes worsen. So, the estimation of liver enzymes in Type 2 diabetes patients may be helpful in treatment process.

Keywords: Aminotransferases, Alanine Aminotransferase , Aspartate Aminotransferase, Type 2 Diabetes

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71 Turbocharger selection and energy analysis of MGU-H for commercial vehicles

Paper ID V5I6-1303 · Pages 342-344 · Automobile

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This paper presents the Regenerative turbocharging which is basically electrically assisted turbocharging. This system aims to improvise two primary parameters of the turbocharger; namely performance and turbocharging. In this system, an electric motor coupled with a battery is added to the standard turbo setup, the motor is attached to the same shaft as the turbo impellers. When there is wastegate exhaust, the turbo rotates the motor, thus making it act like a generator which in turn charges the battery. This energy can later be used to rotate the motor, which will, in turn, boost the turbo, in situations of turbo lag, and low RPM, in the low end. The proposed system thus improves performance by eliminating turbo lag and also makes the engine energy efficient.

Keywords: Turbo lag, Turbo boost, Electronics, Turbine, Isentropic efficiency

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72 Efficient job scheduling algorithm based on weighted average priority in cloud computing

Paper ID V5I6-1291 · Pages 345-349 · Computer Science And Engineering

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In cloud computing, the issue of the scheduling of job is the greatest and testing issue. There are numerous algorithms for scheduling available that are utilized in the environment of cloud computing for better resource scheduling. Scheduling is assigning fundamentally number of resources to the tasks in a manner that there will be maximum utilization of resource, minimum time for total processing and minimum time of waiting. The basic aim of this paper is to study and analyze the various scheduling algorithms in cloud computing, to develop an improved task scheduling using QoS parameters of Virtual machines and priorities of the task based on the deadline, to compare the results of the proposed scheduling technique with the existing multi-objective task Scheduling technique. The proposed methodology is implemented with the help of Cloudsim and NetbeansIDE8.0. CloudSim is the library that provides the simulation environment of cloud computing and also

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provides primary classes describing virtual machines, data centers, users and applications.

Keywords: QoS, Cloud Computing, Min Min algorithm, MIPS, Granularity Size, CloudSim, Task scheduling

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73 Analytical method validation of acetamiprid+ bifenthrin formulation by Reverse Phase High Performance Liquid Chromatography (R-HPLC)

Paper ID V5I6-1294 · Pages 350-356 · Analytical Chemistry

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Many types of combinations of pesticides are being used effectively as insecticide, weedicide, growth regulators and may other applications successfully. To control termites and insecticide these combinations of acetamiprid and bifenthrin are being used effectively in the plant kingdom. Acetamiprid is an organic compound basically and the bifenthrin is and pyrethroid molecule. These molecules are being used as an insecticide; even though chemically different in nature. These molecules in different concentrations and combinations are being used over 100 countries; it is very important to detect and quantify with lesser time and cost-effective. This HPLC method is a simple method to quantify these two molecules within 17 minutes. The simple HPLC analytical method is a reversed-phase chromatography principle by using acetonitrile and 1% Ortho Phosphoric Acid (OPA) in the HPLC grade water 80:20 ratio. In this method Shimadzu C18 column is used with the dimension as 250mm length; 4.6 mm dimension and 5µm silica particle size packed. The detection was carried out at 210nm, with the Shimadzu detector supported with LC solution software. In this method, these acetamiprid was eluted at 3.6 minutes and the bifenthrin was eluted at 2.7 minutes. This analytical method was complying with all the validation parameters of SANCO 3029; version 4 and ICH guidelines.

Keywords: Acetamiprid and Bifenthrin, RP-HPLC, SANCO 3030/99 Rev.4, ICH Guideline

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74 HPTLC and In vitro Cytotoxicity studies of Carica papaya leaf Extracts

Paper ID V5I6-1304 · Pages 357-360 · Biotechnology

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The use of plants in medicines has been prevalent since ancient times. Recent advances in Biotechnology have helped in the validation of their potential as drugs for the treatment of numerous diseases. Various parts of the Carica papaya, popularly grown for their fruits have also been used as ethnomedicine for a number of ailments like diabetes, indigestion, viral infections, and menstrual pain. The present study focusses on the preparation of extracts from the leaves of Male, Female and Hermaphrodite Carica papaya plants using solvents of varying polarities. The solvent was removed from the extract using a Rotary Vacuum Evaporator. A comparative study of the HPTLC analysis of these extracts revealed that the Leaf Extracts of Hermaphrodite Carica papaya plants

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had the maximum number of compounds present in them. In vitro cytotoxicity studies of the shortlisted extracts done using MTT assay on BHK-21 cells. The leaf extracts of Hermaphrodite Carica papaya plants showed no sign of toxicity up to a concentration of 100 µg/ ml, hence proves them to be safe for therapeutic use.

Keywords: Carica papaya, Hermaphrodite, MTT assay, BHK-21

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75 Review of wave energy extraction technologies and current state of the art

Paper ID V5I6-1302 · Pages 361-366 · Electrical Enegineering

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In renewable technologies, ocean wave energy extraction tech is in the early development phase, especially wave power extraction technology. To extract power from waves, a generator with moving parts is used to change wave energy into mechanical energy. Now floating systems and designs that can take benefit of PE and KE are also developed. The main aim and objective of this research article are to make a complete understanding of ocean wave energy extraction technologies. This article will also tackle the potential and consumption that wave energy. This article will also explain the different energy conversion projects at different levels around the world.

Keywords: Wave Energy, Renewable Energy, Point Absorber, Attenuator, OWC, Overtopping

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76 Estimation and cartography the water erosion by integration of the Gavrilovic “EPM” model using a GIS in the Mediterranean watershed: Lower Oued Kert watershed (Eastern Rif, Morocco)

Paper ID V5I6-1298 · Pages 367-374 · Cartography The Water Erosion

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The lower Oued El Kart watershed, situated in the north of Morocco, on the Mediterranean side of the eastern Rif, is characterized by a semi-arid bioclimate and rare and irregular rainfall. The obtained result shows that the watershed loses an average of 14,7 t/ha/year. To evaluate this dynamic and the losses of soil it engenders, we have preceded the integration of the EPM model (Erosion Potential Method) of GAVRILOVIC in a GIS. The maximum loses are 138,8 t/ha/year and minimum are 0,01 t/ha/year. Total annual loses of the watershed of the Oued El Kart low an average of 205 800 t/year (Erosion in the plot). The results analysis of this model has permitted, also using a GIS, to determine the factors that control the water erosion and which are in order of importance: the soil protection (vegetation), erosion types, soil erodibility, the precipitations, the slope, and

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temperature. It should be noted that the used methodology of the EPM model applies to various types of erosion.

Keywords: Watershed of the Oued El Kart Low, Degradation, soil, EPM model, GIS.

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