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SPECTRUM

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Spectrum is an e-magazine with the comprehensive collection of all the papers that have been published in our journal over the last two months — Volume 8, Issue 5 (September-October, 2022). This edition brings together 69 papers by 179 authors from 60 institutions. Each entry links to the abstract and the full paper.

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ABSTRACTS

1 Natural immunity booster -the basic protective gear from pandemics in the international arena

Paper ID V8I5-1139 · Pages 1-6 · Immunity

Avdesh Thassu, Emami Ltd., Kolkata, West Bengal
Chandra Mohan Nandi, Emami Ltd., Kolkata, West Bengal

'Immunity' might be the most searched word during the Covid-19 pandemic. Basically, the term immunity is an innate property of human beings, but to sustain this property we need to follow healthy food habits, cleanliness, etc. Covid 19 pandemic proved the importance of immunity & those who do not keep proper immunity, need to take an immunity booster. This immunity booster may be a group of foods, dietary supplements, medicine, health drinks, etc. In this article, our main aim is to discuss how a good immunity system helps to prevent pandemics & review the role of an immunity booster to increase immunity.

Keywords: Immunity, Immunity Booster, Vitamin, Trace Element, Food, Yoga

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2 Optical cable fiber industry- An Indian perspective

Paper ID V8I5-1138 · Pages 7-16 · Economics And Business Studies

Vihaan Mercchant, Student, Jamnabai Narsee International School, Mumbai, Maharashtra

Due to its increased bandwidth and ability to transmit messages over long distances, optical fibres are reshaping the Indian telecom industry. The market for optical cable fibres is expanding due to the demand for quick and better networks. Due to the new normal, there has been an increase in Fiber to Home (FTTH) access. Due to their faster transmission speed and lower loss, optical fibre is becoming more and more necessary in the office and telecom sectors. Additionally, they have great EMI resistivity, which makes them perfect for usage in hostile environments. Numerous industries, with the telecommunication industry being the most prevalent user, use fibre optic technology, including the military, telecommunication, medical, etc. The market for optical fibre cables (OFC) in India was worth $881.5 million in 2019 and is anticipated to increase at a CAGR of 19.7% to reach $2.1 billion by 2024. It is hoped that government initiatives like the Smart City Initiative and Digital India will accelerate the progress of the industry

Keywords: Bandwidth, Transmission, Propagate, Cladding, Patent, Telecommunication, Pliable, Quantitative

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3 Fatigue seen in caregivers of the intellectually disabled population

Paper ID V8I5-1137 · Pages 17-18 · Mental Health And Disability

Alisha Lalljee, Research Scholar, Assam Don Bosco University, Guwahati, Assam
Dr. Chandita Baruah, Assistant Professor, Assam Don Bosco University, Guwahati, Assam

Individuals with disabilities are often dependent on their primary caregivers for assistance and activities of daily living. A caregiver here may either be a family member or a person trained in special health care. Most caregivers are found to be stressed and fatigued due to the nature of their work. In case the caregiver is a member of the family it is important to equally distribute the responsibilities of the disabled person amongst family members to avoid extra burden on any one person.

Keywords: Mental Health, Disability, Fatigue

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4 Sex education program for intellectually disabled

Paper ID V8I5-1136 · Pages 19-20 · Education

Alisha Lalljee, Research Scholar, Assam Don Bosco University, Guwahati, Assam
Dr. Chandita Baruah, Assistant Professor, Assam Don Bosco University, Guwahati, Assam

Individuals with special needs experience the same sexual feelings like the neurotypical population. This process consists of an interaction between the physical, cognitive, mental, social, relational, ethical, religious and cultural factors as illustrated by Murphy and Elias (2006). Sex education can support children and young people with disabilities in their sexual development and contribute to their health and wellbeing but most of them are deprived of this privilege and do not get the required education that would foster a positive image of sexuality and would empower them. The present paper aims at presenting a full-fledged curriculum design that can enable the intellectually disabled to learn about sex education in a step by step and gradual manner with reinforcement at different stages to gauge the level of understanding of the same.

Keywords: Disability, Sex Education, Mental Health

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5 Intrusion Detection Classification and Detection by Machine Learning and Deep Learning Approaches: Review

Paper ID V8I5-1147 · Pages 21-29 · Computer Science

Ayush Gautam, Student, Himachal Pradesh Technical University, Hamirpur, Himachal Pradesh
Shivani Rana, Assistant Professor, Himachal Pradesh Technical University, Hamirpur, Himachal Pradesh

DoS attacks that disrupt important, intelligent services like healthcare can also result in human death due to the disruption of routine services. devices (for example, intelligent refrigerators, smart televisions, and air conditioners) are easily attacked by attackers who exploit their weaknesses to launch denial-of-service attacks. As a result, one of the primary concerns for researchers all over the world is the protection of these devices. Globally, intrusion detection is being studied to fix this matter. IDS are classified into three categories based on

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their detection capabilities: Depending on a signature, a specification, or an anomaly. Whenever a device or network connections analyses an attack against a signature contained in the inner IDS database, an attack is identified by IDSs. If a device or network operation matches one of the saved signatures/patterns, a warning will be generated. This method is extremely reliable and effective at recognizing identified risks, and its process is simple to comprehend. However, this technique is ineffective in classifying new attacks and discrepancies between current These sorts of assaults do not have a meaningful signature to identify them If the divergence from a specified behaviour profile exceeds a predefined threshold, an anomaly-based intrusion detection system (IDS) issues an alert. Classifying intrusions does not seem to follow a typical pattern, and understanding the whole spectrum of normal activity is not an easy task. Emerging threats may be identified using this method. As a consequence, there is a significant rate of false positives with this method. Routing tables, protocols, and nodes, for example, are all part of the specification-based approach since they are all defined by a set of rules and criteria. It is possible to identify intrusions when network behaviour deviates from standards' specifications, using specification-based techniques. Therefore, specification-based detection is used for the same goal as anomaly detection: to separate aberrant behaviour from normal behaviour.

Keywords: IDS, Machine Learning, Deep Learning, Classification

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6 Credit Card Fraud Detection and Classification by Optimize Features and Deep Learning

Paper ID V8I5-1146 · Pages 30-35 · Computer Science

Razia Seema, Student, Himachal Pradesh Technical University, Hamirpur, Himachal Pradesh
Kumari Archana, Faculty, Himachal Pradesh Technical University, Hamirpur, Himachal Pradesh

Traditionally, rule-based systems have been the primary instrument for detecting fraud in today's financial systems, with fraud specialists defining the rules based on prior instances and outcomes. If a new transaction meets one or more of the previously established criteria, an alert is triggered, indicating that the new transaction may be fraudulent. For previously known fraud tendencies, the rule-based method is effective. Before adding a new rule to the current rule set, a sufficient number of fraudulent transactions must have happened that fit the rule. During this time span, fraud techniques may evolve, resulting in the induced rule expiring. Thus, the emphasis should be on using prior transactions that follow a rule-based approach in conjunction with an unsupervised method that detects previously unknown fraud activity. There is a need to use fraud detection systems that are capable of keeping up with the cardholder's updated spending behaviour. The detection process's goal is to identify as much fraud as possible while reducing the false positive rate, which has a negative effect on cardholder satisfaction as the cost of providing more false alarms increases. To accomplish this approach, the threshold value is determined at the account level of the cardholder by evaluating the probability sequence of previous and new incoming transactions. Additionally, identified fraudulent transactions are labelled in the database for future analysis in the event that additional assessment is required.

Keywords: Deep learning, Fraud, Detection, Classification

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7 Carbon credits: Are they effective?

Paper ID V8I5-1142 · Pages 36-42 · Environmental Economics

Sanjana Saigal, Student, University of Delhi, New Delhi, Delhi

In today's sustainable and environmentally responsible world, it is necessary to track and regulate a country's CO2 emissions. This paper will evaluate if carbon credits in the form of carbon taxes have an effect on CO2 emissions and if there is, to what extent. The data used are from countries that have successfully established carbon tax. The paper will investigate the above by using a Linear Regression Model with the carbon tax, GDP per capita, and Area of the country as the explanatory variables and CO2 emission as a dependent variable.

Keywords: Econometrics, Regression, R Programming, Carbon Footprint, Climate Change, Environment, Taxes, Carbon Credits

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8 Emerging smart fashion and its scope in the future

Paper ID V8I5-1148 · Pages 43-45 · Fashion

Gaurika Vaswani, Student, Singapore American School, Singapore

Smart Fashion has recently attracted the attention of the world and people are enthusiastically adopting it. It is a new form of fashion with technology embedded in it, which makes our everyday activities more efficient and less time-consuming. This study provides information about how smart fashion is developing and the different sectors where it is being actively adopted by professionals and governments. The paper discusses the emergence and continual growth of smart fashion in various domains: military, healthcare, sports and marine. Smart fashion for the elderly smart textiles and gadgets for the youth have also been included in the study. Smart Fashion has yet not been extensively adopted by the world yet, however, the research work shows the enormous potential it carries; it throws light on how with the advancement of technology, it will become more and more aesthetically pleasing and comfortable for commoners and industrials.

Keywords: Fashion, Emerging, Developing

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9 Operations Research on service scheduling in the healthcare sector: A systematic review

Paper ID V8I5-1151 · Pages 46-55 · Healthcare Sector (service Scheduling)

Aryan Smith, Student, Anil Surendra Modi School of Commerce, Mumbai, Maharashtra
Aryan Jain, Student, Anil Surendra Modi School of Commerce, Mumbai, Maharashtra
Anushka Agarwal, Student, Anil Surendra Modi School of Commerce, Mumbai, Maharashtra
Arhan Shroff, Student, Anil Surendra Modi School of Commerce, Mumbai, Maharashtra
Aryan Verma, Student, Anil Surendra Modi School of Commerce, Mumbai, Maharashtra
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The current state of healthcare in the world is dire, with millions of people unable to access healthcare services on time. One of the key reasons behind this problem is the lack of operational efficiency in many clinics and

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hospitals, caused due to unscientific scheduling practices. Hence, this paper seeks to conduct a systematic review of the existing research done in the field of healthcare service scheduling, and its multiple sub-sections viz. appointment scheduling, nurse rostering, home healthcare scheduling, etc. The bibliometric review found that majority of the research in the aforementioned field is scattered and lacks integration. Moreover, past research has primarily employed matheuristics, mixed integer linear programming and simulation approaches to solve service scheduling problems, without exploring other methods to a great extent. In the end, we suggest some topics in which future research can be conducted.

Keywords: Service Scheduling, Healthcare, Review, Operation Research, Queueing

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10 Operations Research in tourism: A systematic literature review

Paper ID V8I5-1157 · Pages 56-62 · Tourism Sector

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The tourism sector is extremely competitive and characterized by fierce competition for the discretionary spending of tourists. To effectively compete in the tourism sector, a nation or region must be able to make informed strategic and operational decisions. In this decision-making process, the capacity to predict tourism demand with accuracy in the context of an ever-changing environment may be very helpful. Academic study on tourism is increasingly becoming the main topic as its economic significance increases. Research in this field aids in comparing best practices and spotting new patterns in tourist demand and supply. This is where the exploding use of Big Data in the recent year comes in. Big Data, a relatively newer phenomenon is a complex and huge data set that is derived from a combination of numerous individual data. The main objective of the research is to understand and review the existing research on the application of operation research and big data in the tourism sector for revenue and efficiency maximization, extrapolating data to estimate potential future demand, challenges faced by the hospitality sector, and comprehend the latest trends in tourism marketing, among other things. The paper evaluates the available studies on the tourist business sector using various software available.

Keywords: Tourism, Operations Research, Big Data, Sustainability, Optimization, COVID-19

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11 Disaster management and application of different methods: A systematic review

Paper ID V8I5-1153 · Pages 63-74 · Disaster Management

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Disaster management methods help in planning, organizing, coordinating and implementing measures for preventing the loss due to disasters. These methods also help in reducing the effect of disasters by providing effective resolving techniques. In this paper we have conducted a systematic literature review on various different methods which have been used in phases of disasters. A total of 153 published research and review articles have been chosen from the search for analysis. Different disaster management methods are reviewed and summarized. Also highlighted are the contributions of various authors, their methodological focuses, and additional findings of the reviewed works. It is noticed that most of the papers with different methods analyzed prevention techniques, preparedness during disasters, mitigation phase and recovery phase. In recent years, studies have focused on advanced technological methods like remote sensing and using drones for managing disaster; however, in the literature, few papers have applied technological methods in the area of disaster management. The contribution of the review paper to the literature is by looking over the present research, and putting forward new opportunities for future research in the area of disaster management by applying different methods.

Keywords: Disaster Management, Effective Decision Making, Disaster Risk Reduction, Disaster Preparedness, Geographic Information System, Remote Sensing

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12 DDoS Detection in Internet of Medical Things Approaches: Review

Paper ID V8I5-1160 · Pages 75-78 · Computer Science

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Health is a primary concern for every individual and to make it better all the resources should be available on one’s hand. To make it practical manual supervision of healthcare tradition must be evaded. As various conventional healthcare practice, manual supervision in patient diagnosis, generating bills and maintains all medicine stock records, patient past records manually. Manual supervision of healthcare results to human error and the whole healthcare process becomes lengthy. To overcome these problems, a smart healthcare system enabled with Internet of Things (IoT) comes into sight, which lowers human error risk and also helps physician to diagnose the disease more effectively.

Keywords: IoT, Medical, sensors, optimization

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13 Impact of social media during elections – A global perspective

Paper ID V8I5-1149 · Pages 79-88 · Political Science

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Smart leaders frequently use new media to affect politics. Election-related effects of social media were noticeable in the early 2000s. In his first presidential campaign, Barack Obama made use of social media to mobilize the public and win the 2008 election. According to Pew Research Center, 74% of internet users or 55% of the adult population—looked for election news online during Obama's first campaign. Local elections also benefit greatly from social media. A famous example is when Beto O'Rourke came dangerously close to unseating Senator Ted Cruz in 2018. The majority of Indian political figures now use Facebook and Twitter to express themselves without the censorship of mainstream media. It is vital to understand how social media affects elections and what voters can do to use the internet responsibly given that candidates devote a lot of resources to social media campaigns. Social media platforms were created by businesses to encourage interaction, but although this interaction can help politicians spread their messages and reach more voters, it has also been demonstrated to make it simple for election misinformation to spread globally

Keywords: Social Media, Twitter Bombs, Google Bombs, Political Campaigns, Traditional Media, Political Parties, Candidates, Civic Engagement, Political Messaging, Political Engagement, Online Presence, Political Participation, Internet, Crowd Sourcing, Advertising, Panel Data, Political Communication, Fundraising, Digital Domain, Political Promotion

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14 Application of Queuing Theory in Passenger Queuing Optimization at Airports – A Systematic Review

Paper ID V8I5-1158 · Pages 89-96 · Transportation - Operations Research

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Waiting lines and queues are a frequent occurrence in both the workings of businesses and the daily lives of clients. A queue is the first contact point between a business and its client. Clients may not be satisfied with lengthy queues. Therefore, in order to leave a lasting first impression on the client’s mind, it is crucial for a company to ensure minimal queuing. The aviation industry experiences significant queuing issues as a result of passengers queuing up for boarding, departure, luggage pickup, and so on. A systematic queue network is also required to guarantee that planes experience minimum air and runway congestion. Queuing theory is a mathematical approach to the analysis of queue waiting times. This paper presents a run-through of queuing theory and its application in the aviation industry, covering a detailed explanation of queuing theory, terminologies associated with it, recent advancements in airport queuing, various queuing models, as well as some suggestions for further research.

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Keywords: Queuing Theory, Queuing Models, Simulation, Airport Queuing, Passenger Queuing

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15 Operations research in supply chain management of fashion and textiles: Systematic literature review

Paper ID V8I5-1167 · Pages 97-111 · Textile Industry

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This paper will cover the adverse effects of the constantly growing fast-fashion industry within the textile industry on the environment and the challenges faced while trying to make the industry more sustainable in terms of supply chain management. This literature review critically analyses the content of over two hundred papers published in many alternative reputed journals and books spread over fifty years i.e., 1972 to 2022. This systematic literature review is designed by using the subsequent categories: year, sustainable supply chain management (SSCM), textile industry, recycling, textile industry sustainability, water waste management, and barriers. The findings from this literature that the sustainability problems have been solved in theory using multiple different methods such as linear programming problem(LPP), Decision Making Trial and Evaluation Laboratory (DEMATEL) method, life cycle assessment (LCA), etc., but implementation is difficult. The results indicate that with increasing consumer awareness, more and more opportunities are becoming available to put the problems solved in theory into practice with the help of advanced operations research techniques and better and more efficient algorithms in SCM systems.

Keywords: Sustainable Supply Chain Management (SSCM), Textile Industry, Fast-Fashion Industry, Sustainability, Barriers, Recycling

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16 Applications of operations research in the airline industry: The aircraft sequencing problem

Paper ID V8I5-1166 · Pages 112-116 · Aeronautical Engineering

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Operations Research has seen a major breakthrough in the airline industry through airplane sequencing/scheduling problems (ASP). With continual developments, the airline industry has optimized air traffic management and minimized time delays in the arrival and departure of aircraft. There have been contributions from all fields of knowledge to come up with exact solutions and implied algorithms. The objective

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of this paper is to highlight the analytical discourse of the airline sequencing problem (ASP), outlining graphical formulations, mathematical models, theoretical perspectives, and novel approaches that define the problem and provide alternate contextual solutions. The systematic review focuses on the progress of these approaches to allow a layperson to get a detailed overview of the sequencing/scheduling problem and its implication in the airline industry.

Keywords: Aircraft Sequencing Problem, Operations Research, Aircraft Landing Problem, Runway Scheduling Problem, Mixed Integer Optimization, Dynamic Programming

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17 Experimental analysis and optimization of wind turbine for domestic application

Paper ID V8I5-1162 · Pages 117-121 · Analysis

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The conventional sources of energy are fast depleting and are causing very serious problem to the environment, for example combustion of fuels causes atmospheric pollution which is not suitable for human beings as well as other species living in the environment. The other major drawback of conventional sources is their high cost. The processes by which the conventional sources are extracted are also expensive. So there is a need to search for alternate source of energy and to extract them to meet our needs. An attempt is made to extract alternate source of energy that is wind. Wind energy is used to rotate the blade which helps the dc motor to produce dc current. By installing small wind turbine in the village and city which is situated in western ghat of Tamandu and Maharashtra, the state of Gujarat and Karnataka we can easily produce electricity due to its geographical location. This small wind turbine is able to generate the enough power for a household application in remote area. This will help the nation to overcome with the power crises problem specially in summer season

Keywords: Turbine, wind energy, Harvesting, generating Power

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18 A study of meteorites on the basis of their source and origin.

Paper ID V8I5-1154 · Pages 122-132 · Geochemistry

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Harishchandra B. Mali, Independent Researcher

Representative samples of meteorites namely, 1) Sikhote Alin (iron meteorite), 2) Campo-del Cielo (iron meteorite), 3) Nantan (stony iron meteorite), 4) Morocco (stony iron), and 5) North West African meteorite (likely to be of chondrite in nature), were investigated to understand their source and origin with respect to their physical properties and chemical compositions. XRF Analysis carried out showed that 1) Sikhote Alin contains Fe - 89.0%, Ni - 4.83% and Si - 3.51% with other elements in minor compositions, 2) Campo-del Cielo contains Fe - 97.4%, Ni - 1.15% with other elements in minor compositions., 3) Nantan contains Fe_2O_3 - 66.8%,

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SiO_2 - 22.7%, Aluminum - 6.380%, Nickel - 1.760% with other oxides in minor compositions 4) Morocco meteorite contains Fe_2O_3 - 45.7%, SiO_2 - 17.2%, CaO – 14.2%, MgO – 10.9%, SO_3 - 3.80%, Al_2O_3 and NiO – 2.42% and 5) North West African meteorite (N.W.A.) contains SiO_2 - 39.9%, Fe_2O_3 - 27.4%, MgO – 20.8%, Al_2O_3 - 6.040%, CaO – 2.34%, SO_3 - 1.610% and NiO – 0.734%, with other oxides in minor compositions Objects fallen on earth so far has been given a common name ‘meteorites’ The authors of this paper broadly classified meteorites into ‘Seteorites’ and ‘Uniteorites’. The source of ‘seteorites’ is from our solar system and the source of ‘uniteorites’ is from beyond our solar system. Physico - chemical nature of ‘seteorites’ and ‘uniteorites’ are different as per their source. This paper aims at carrying out a detailed study on seteorites (meteorites), to understand their source, origin and their distribution in the solar system with respect to their physical properties and chemical compositions on preliminary basis.

Keywords: Iron Meteorite, Stony Iron Meteorite, Stony Meteorite (Chondritic In Nature), Source and Origin, Physical Properties and Chemical Compositions.

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19 Central Bank Digital Currencies in India; The digital Rupee: An alternative to cash or not

Paper ID V8I5-1168 · Pages 133-139 · Economics

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With rapid changes in technology, digital currencies are gaining momentum across the globe. As of March 2022, 87 countries are considering issuing Central Bank Digital Currencies (CBDC), compared to the 35 countries in May 2020, showing the promise that Digital Currencies hold in the near future. One such country that has been making great strides towards digital currency and holds immense promise for its economic success is India. Digital Rupee—India’s CBDC. The most basic definition of CBDCs are that they are a digital version of the fiat currency.

Keywords: CBDCs, Distributed Ledger Technology, Blockchain, Digital Rupee, Intermediaries, Custodians, GDP

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20 Design and Modeling of Distributed Generation with Solar Micro Grid

Paper ID V8I5-1140 · Pages 140-144 · Power System

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Today most things are electrified and at the same time demand for the electricity is rapidly increasing. So, to overcome this deviation between generating capacity and demand, we need to increase the generation of electricity. These sudden changes in the energy demands and forecast can be met with the implementation of Renewable energy sources in less time. This is the reason nowadays the world running towards renewable energy generation sources like Solar, Wind, etc. Renewable energy generation is a Carbon-free emission. Generation with Solar PV System could be a solution to overcome energy demand day by day. As the solar PV system is depending on Sun and weather conditions, so it gives low and varying which provides a lower

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efficiency compared with the other energy sources, An MPPT technique plays an in increasing the output of the solar PV system by tracking the maximum power that could generate at the point of the instance of solar irradiance. An optimum point will be determined at which the maximum power point is defined, and it may vary with cell temperatures and insulation levels at a certain PV Array voltage. The work of an MPPT is to extract the maximum power from the optimal point of the solar PV array to increase the output from the system. Our motto is two eliminate the difference between, load demand and generation. So, by using MPPT Techniques along with Distributed Generation system we can achieve this. Distributed generation system is nothing but a generating station near load centers. By this technique, we install solar generating stations in rural areas and they will connect with the main supply grid, so we will distribute the electricity without interruption.

Keywords: Solar Energy, Distributed Generation, Solar PV Array Mppt, Perturb & Observe Mppt, Solar Micro Grid, Lee-15 Distribution Network Bus Test, Load Flow Analysis

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21 Effectiveness of interventional package on physiological, neurobehavioral parameters among preterm

Paper ID V8I5-1170 · Pages 145-150 · Child Health Nursing

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Preterm birth is now the single most important cause of neonatal deaths and the second leading cause of death in children under 5. A quantitative study was done to assess the effectiveness of the Interventional package on physiological, and neurobehavioral parameters among Preterm admitted to NICU by using a True experimental design.150 preterm babies whose weights were between 1500 grams – 2000 grams were selected by using the nonprobability consecutive sampling technique and were randomly allocated to experimental arms I, II,& III (50 each). Experimental arm I received Auditory stimulation, Experimental arm II received Kinesthetic stimulation & Experimental arm III received Tactile stimulation for 5 minutes (AKTS). Pretest and post-test were done by using a questionnaire to obtain Demographic variables, an observational tool, the Bristol Breastfeeding Assessment tool, and Morgan's neonatal neurobehavioral examination scale. The statistical value showed that moderately significant difference between the pre and post-test scores of physiological, and neurobehavioral parameters among Preterm.

Keywords: Preterm, Auditory Stimulation, Kinesthetic Stimulation, Tactile Stimulation

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22 Use of CMMC 1.0 model to benchmark cyber security maturity within third parties

Paper ID V8I5-1172 · Pages 151-159 · Cyber Security

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A Ponemon Institute study found that 51% of businesses have suffered a data breach caused by an outside

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party, with 44% suffering a breach within the previous 12 months. Of this 44%, 74% were the result of giving too much-privileged access to third parties. Seeing the large number of cyber-attacks due to third-party companies over the years has created a need to benchmark cyber security models of third-party companies as they serve as vendors to various organizations and risk their data. In this paper, we will discuss why we should use CMMC 1.0 model to benchmark third-party company's cyber security models, and why it would be better to use CMMC 1.0 certification model over CMMC 2.0 model to benchmark third-party company's cyber security models since it offers more benefits even though CMMC 2.0 is latest model and what benefits it offers over CMMC 1.0 certification model with its advantages explained in detail.

Keywords: Cyberattacks, Third-Party Companies, Cybersecurity Benchmarking, CMMC 1.0 model, CMMC 2.0 model

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23 High speed and low latency passive optical network for 5G wireless systems

Paper ID V8I5-1171 · Pages 160-167 · Optical Technologies

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We present a high-speed and low-latency passive optical network (PON) powered by time-controlled-tactile optical access (TIC-TOC) technology to meet the latency and bandwidth requirements of 5G mobile networks and next-generation residential/business services. Via channel bonding in a single optical distribution network, we illustrate real-time packet transmission up to 50 Gb/s without packet loss over a 48-hour period. (ODN) with a reach of 20 km and a split ratio of 1:64. There is also evidence of a delay of fewer than 400 milliseconds for 5G mobile services. We also confirm that by adding more channels, total throughput can be increased to 100 Gb/s.

Keywords: NG-EPON, Multilane-based PON, 50Gb/s PON, Channel Bonding, Low-Latency DBA

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24 Privatization of public sector – An Indian perspective

Paper ID V8I5-1173 · Pages 168-178 · Economics And Business Management

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Privatisation is not a single, distinct economic idea. Instead, it encompasses a diverse variety of activities that all indicate a shift in the delivery of goods and services from the public to the private sector. Privatization, for instance, encompasses a variety of actions, such as the sale of public assets to private owners, the simple termination of government initiatives, the contracting out of previously provided services by state agencies to private producers, and the entry of private companies into markets that were previously monopolized by the state. Additionally, the definition of privatisation varies around the world depending on where it is practised and the underlying economic principles. Many business analysts and economic experts believe that privatisation could accelerate economic growth owing to more competition, while others believe that it could actually worsen existing problems like unemployment and cause the economy to regress. This substantial move from public to private administration in India will result in a variety of notable improvements, including increased

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effectiveness and quality of remaining government functions, less taxation, and a reduction in overall government size. The profit-seeking conduct of new, private sector management will surely result in cost reduction and more emphasis on customer satisfaction in the tasks that are privatised.

Keywords: Privatization, Public Sector, Undertakings, State-Owned Enterprises, Private Sector Organizations, Disinvestment, Mixed Economy, Delegation, Divestment, Displacement, Contracting, Leasing, Subsidiary Assets, Shareholder, Deregulations, Liquidation, Profit Maximization, Efficiency, Competition, Accountability, Responsibility, Fiscal Debt, Liberalization, Departmental Undertakings, Statutory Organizations.

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25 Corporate Governance – An Indian Perspective

Paper ID V8I5-1176 · Pages 179-190 · Economics And Business Management

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Balance between the interests of the various stakeholders in a corporation is essentially what corporate governance is all about. They include the government, the community, the shareholders, the management, the customers, the suppliers, and the financiers. Additionally, it creates the framework for a company's goals to be met and covers almost every aspect of management, from action plans and internal controls to performance evaluation and corporate disclosures. The need for an efficient and transparent corporate governance system has grown as a result of high-profile corporate governance failure scams, such as the stock market scam, the UTI scam, the Ketan Parikh scam, and the Satyam scam, which was sharply criticized by the shareholders. These scams have a significant impact on the nation's development.

Keywords: Corporate Governance, Insider Trading, Accountability, Board Of Directors, Auditors, Company Act 2013, Unethical Practices, Fraudulent, Ethical Crisis, Scandals, Stakeholders, Internal Transparency, Governance Regulation, Framework, Financial Operations, Disclosure, Accounting Standards, Effectiveness, Public Trust, Formulation Of Policy, Internal Compliance

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26 DDoS Detection in Internet of Medical Things through Ensemble Learning with Clustering

Paper ID V8I5-1180 · Pages 191-196 · Computer Science

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A direct or indirect means of attack modes have been found in the literature and the various types of attacks and their unique features have been extensively studied from the literature. Since the proposed evaluation is based on 119 evolutionary algorithms, the features of the attacks are extremely important to make the system learn and hence self-adapt to varying input attack patterns thus making the system to be intelligent. The last part of this chapter brings out the various defense and attack response mechanisms that have been developed in recent times and the merits and loopholes in existing system have been recorded. The literature survey has been extremely useful in proposing constraint featured defense mechanisms for the incoming DDoS attacks.

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Keywords: Internet of Medical Things, DDoS Attacks, Remote Patient Monitoring

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27 Applications of Operations Research in Sports

Paper ID V8I5-1185 · Pages 197-201 · Operational Research

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The goal of the research paper is to identify various operations research techniques that are used in the sports industry to help with match schedules, player performance evaluation for team selection, and the development of a team formation that is effective for winning in sports like football, basketball, and cricket. It also demonstrates how certain tactics can assist us in developing stronger game plans for sports like tennis, badminton, boxing, and swimming. Finally, the techniques employed in the research paper have aided sports managers, coaches, and players in using an appropriate tool to resolve a number of issues in the sports sector.

Keywords: Game Theory, Team Formation, Scheduling, Decision Making

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28 Effect of integrated nutrients management on growth and yield of wheat

Paper ID V8I5-1188 · Pages 202-205 · Agriculture

Suresh Babu Chittimothu, Research Scholar, Sam Higginbottom University of Agricultural Technology and Sciences-SHUATS, Prayagraj, Uttar Pradesh

A present field experiment was conducted in the Agricultural Science Research Area, Prabhu Dayal Memorial University, between 2020-21 and 2021-22 for the study. For the study of the Effect of integrated nutrients management on growth, yield characteristics, and yield of wheat. The experiment was done in a randomized block design with three replications and ten treatments. T1. Control, T2.100% RDN (recommended dose Nitrogen) +25% N by FYM, T3.100% RDN+25% N by vermicompost, T4.75% RDN+25% N by FYM, T5.75% RDN+ 25% N by vermicompost, T6.50% RDN+50% N by FYM, T7. By 50% RDN+50% N FYM by vermicompost, T8.25% RDN+75% N by vermicompost and T10. 100% RD. The highest yielding traits and wheat yield were produced with 100 percent of the recommended dose of Nitrogen (RDN) and +25 percent nitrogen by vermicompost in two consecutive years, but it did not differ By FYM using the recommended dose of 100 percent nitrogen (RDN)+25 percent nitrogen significantly and a treatment that applied 100 percent of the recommended dose of nitrogen. Pooled on a two-year basis data, T3 produced 94.96 percent more effective tillers, 34.14 percent longer spike length, 25.47 percent longer test weight, 165.21 percent higher grain yield, and 157.13 percent higher straw yield in wheat over control.

Keywords: Integrated Nutrient Management, Wheat Yield, Nutrients

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29 Wilful defaulters and the Indian banking sector: A study

Paper ID V8I5-1182 · Pages 206-211 · Finance

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In this research paper, we analyze the increasing number of wilful defaulters in India and how certain shortcomings of the banking system contribute to this. Recently, the rising incidence of NPAs has generally caused the performance of the banking sector to decline. The paper encompasses past defaults that have occurred and how they have impacted the Indian financial sector. It is important to acknowledge how a well-structured banking sector contributes to the development of a country. We have made use of secondary data from various sources to support our assumption about the increase of wilful defaulters.

Keywords: Wilful Defaulters, Indian Banking Sector, Non-Performing Assets (NPAs), Capital, Finance, Bank Loans

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30 Which silicon structure makes the most effective solar cell?

Paper ID V8I5-1191 · Pages 212-221 · Physics

Krish Waghani, Student, Independent Researcher

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This research paper aims at examining which silicon structure would make the best solar cell. Three different structures were used - polycrystalline, monocrystalline, and amorphous. By using different colored filters with different wavelengths, the wavelength of the incident light was altered. The current and voltage that were generated by the monocrystalline solar cell were measured for different incident light wavelengths. This was then repeated for the other 2 structures of solar cells. The analysis of the obtained data resulted in thefollowing conclusions: 1. There is perhaps a large bandgap in the amorphous cell, as its output varies withfrequency. 2. There is perhaps a small bandgap in polycrystalline cells, as at lower wavelengths, its outputvaries with frequency; at higher wavelengths, its output varies with intensity. 3. There is a medium-sizedbandgap in monocrystalline cells. The output of the monocrystalline cell varies between the outputs of theother 2 cells. At higher wavelengths, the output varies to a certain extent with intensity; at lower wavelengths,the output varies to a certain extent with frequency. As a result, their conclusions were used in order to answerthe research question that stated, “Which silicon structure makes the most effective solar cell?” There is noideal structure for a solar cell; each structure’s effectiveness is determined by its usage. The amorphous cell isnot expensive, and there is little variation in its output with a change in intensity. However, it producesrelatively less power. As a result, it is highly effective for smaller-scale usages such as in watches orcalculators, in environments that have low intensity. The polycrystalline cell output mainly varies with intensity,which thereby makes it useful for outdoor usages such as in deserts. At low wavelengths, it shows variationwith a change in frequency, which thereby makes it useful for times such as dawn and dusk when there isbluish light. Since its production of power is much greater, it is highly suitable for larger-scale productions ofenergy. The monocrystalline cell has an output that is greater than the amorphous cell, but not high enough toaccount for its expensive cost. It is applicable on a smaller scale, such as in processor chips.

Keywords: Solar, Cells, Energy, Efficiency, Amorphous, Polycrystalline, Monocrystalline

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31 Technology’s impact on the banking sector in India

Paper ID V8I5-1184 · Pages 222-226 · Commerce

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The banking industry is the backbone of the Indian financial system and it is plagued by many challenging forces. One such force is the revolution of information technology. The banking sector has experienced a tremendous technological revolution that has paved the way for creating newer, better opportunities for its customers. The impact of technology on the banking industry is manifold and can be witnessed by the speed at which banks operate in the country. Banks in India have invested heavily in technology such as Tele Banking, Mobile Banking, Net Banking, ATMs, Credit Cards, Debit Cards, Electronic Payment Systems, and Data Warehousing and Data Mining Solutions, to bring improvements in the quality of customer services and the fast processing of banking operations. Heavy investments in IT have been made by the banks in the expectation of improvement in their performance.

Keywords: Banking Technology Index, Technology Enabled Services, 3G and 4G Services.

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32 Operations Research

Paper ID V8I5-1192 · Pages 227-230 · Airline Industry

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This paper provides an overview of several key areas of operations research applications in the air transportation industry. Specific topics covered include the various stages of aircraft and crew schedule planning; revenue management, including overbooking and leg-based and network-based seat inventory management; and aviation infrastructure planning and operations (airports and air traffic management). In each of these cases, the paper provides both a historical perspective on OR contributions and a brief summary of cutting-edge technology. It also identifies some of the major research challenges for the future. The paper also addresses these factors by way of a Transportation Problem, Monte Carlo Simulation, and a Game Theory Matrix respectively. This study considers a multitude of factors paving the way for further research to consider solutions for problems of greater complexity.

Keywords: Operations research, Airline Management, Airline Scheduling, Vogel’s Approximation Method, Hungarian Assignment Model, Critical Path Analysis, and Aircraft Maintenance Problem.

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33 Surgical Safety Checklist: Challenges and A Way Out

Paper ID V8I5-1194 · Pages 231-232 · Nursing

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Surgery is at the pinnacle of today’s health care system. It is the only intervention that alleviates pain, disability and decreases the risk of death from common conditions. While surgeries are expected to safe lives, negligence in carrying out them can cause substantial harm to the patients. In 2009, the World Health Organization (WHO) published the Surgical Safety Checklist (SSC) as part of their Safe Surgery Saves Lives campaign. It was developed by WHO with the aim to decrease errors and adverse events and increase teamwork and communication in surgery. Over the years, this 19-item checklist has shown reduction in both morbidity and mortality among surgical patients and is now used by most of the surgical providers all over the planet. Though the checklist has improved surgical outcomes, many health-care providers are hesitant in implementing it in their everyday practice. Right utilization of this form can transform surgical care.

Keywords: WHO Surgical Safety Checklist, Implementation, Adoption barriers

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34 The effect of social media marketing on consumer behaviour

Paper ID V8I5-1195 · Pages 233-240 · Marketing

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Nearly every industry in India has adopted social media marketing. According to a Goldman Sachs report, the Indian digital marketing business is expected to be worth $160 billion by 2025. Digital marketing is expanding quickly in India as consumers have been inspired to purchase from a new brand after seeing social media images or posts, thus it has been found that 71% of consumers are more likely to make a purchase based on social media referrals. Therefore it is important for us to understand how social media has influenced consumers' purchase behavior. Therefore the research aimed to investigate the factors that influence customer buying decisions through online forms of marketing (social media) by comparing it with offline forms of marketing(billboards), by making use of the advertisements provided by the multinational company Starbucks. The research also aimed to investigate why individuals are more convinced to buy a drink through social media than through offline marketing. The research was conducted on 40 customers of Starbucks in India, and Mumbai, most of them being students who follow Starbucks on various social media platforms. Data was collected through an online questionnaire sent through google forms. The results of the research indicated that since social media marketing makes use of various creative elements(music, graphic,s and colors), customer testimonials and helps satisfy a need, which gives them social proof, individuals are more convinced to purchase a drink from Starbucks than through offline forms of marketing. This concludes that social media marketing is more effective than offline marketing since it gives social proof, and therefore has a more significant effect on consumers' purchase behavior.

Keywords: Social Media Marketing, Consumer, Purchase Behavior, Online And Offline Marketing, Social Proof

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35 Effect of Intradialytic Aerobic Exercise on Fatigue in Patients Undergoing Hemodialysis

Paper ID V8I5-1196 · Pages 241-247 · Nursing

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Fatigue is a common debilitating symptom which remains unrecognized among people with chronic kidney disease with significant impacts on patients’ everyday functioning. The aim of this study was to determine the effect of intradialytic aerobic exercise on fatigue in hemodialysis patients. A Quasi experimental study was carried out among 60 adult hemodialysis patients (30 each in the groups) selected by consecutive sampling technique. The baseline characteristics and pretest fatigue score were assessed for both the groups and the intradialytic aerobic exercise was administered for 8 weeks (three times/week) among the experimental group. Then post intervention I and II fatigue score were assessed in both the groups at end of 4th and 8th week. In Control group, there was no statistically significant difference in fatigue score between pre intervention, post intervention I and II (32.43 ± 7.78, 32.20 ± 7.00 and 31.13 ± 8.44, F=1.29, p = 0.28)). Whereas, in

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experimental group, there was significant reduction in fatigue score in post intervention I (26.97 ± 8.60) and II (23.57 ± 7.29) than pre intervention (32.20 ± 8.64) at p=0.001. There was significant difference in post intervention I (t=2.58, p= 0.001) and post intervention II (t=3.71, p = 0.001) between control and experimental group. This study shows that intradialytic aerobic exercises is beneficial in reducing fatigue, as a supplementary therapy in hemodialysis patients.

Keywords: Fatigue, Chronic Kidney Disease, Intradialytic Aerobic Exercise, Hemodialysis

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36 Parental explanatory model and perceived burden of child and adolescent psychiatric disorder

Paper ID V8I5-1200 · Pages 248-251 · Nursing

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To assess the explanatory model and perceived burden of child and adolescent psychiatric disorder and to study the relationship between them. Observation design was used. Computerized simple random technique was used to recruit 200 subjects after consent. Short explanatory model interview (SEMI) was used to assess the explanatory model and the family intervention burden scale was used to rate the burden of primary care givers. Among 200 subjects, 53.5% and 50.5% have medical model and non medical model respectively. Among the medical model 46.5% have allopathic perspective and 54.5% have complementary and alternative medicine model. Mean burden of primary care giver was 18.86 with SD ±11.08. There is a significant relationship between explanatory model and perceived burden of primary care givers (P=0.025). Assessing and understanding the influence of explanatory model on burden helps in intervening with burden of the primary care givers. Education and support are an essential part of nursing care. It is an effective method for improving the knowledge as well as decreasing burden of child and adolescent psychiatric disorders among primary care givers and will help in increasing adherence to therapeutic regimen.

Keywords: Belief, Perception, Child and Adolescent Psychiatry, Explanatory Model, Care Givers Burden

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37 A study on applications of operation research in the airline industry

Paper ID V8I5-1203 · Pages 252-256 · Airline

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Operations research is the application of scientific and mathematical methods to study the problem-solving and decision-making aspect which is useful for the management of organizations. The discipline of operations

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research has greatly contributed to the aviation sector. It is one of the fastest-growing sectors globally, adding a lot of value to the economy. This paper is an effort to study and analyze the various 2 problems faced by the airline industry using the applications of operations research. The most common problems are fleet assignment, tail assignment, airline scheduling, airline overbooking, disruption management, airline maintenance planning, demand management, operational performance, and airport deicing. We'll analyze, review and give suggestions for the operations research tools and models used by various researchers across the world to solve the problems. This paper also talks about the lack of a management system, the efficiency of various airlines in India, minimizing the operational cost in fleet operation, and the evaluation of Brazilian airlines. The data for this research paper has been collected using secondary research, by means of existing research papers, articles, and reliable websites like Statista, economic times, etc.

Keywords: Operations Research, Airline Industry, Fleet Assignment, Tail Assignment, Airline Scheduling, Overbooking, Disruption Management, Demand Management, Airport De-Icing, Integer LP, Rolling Horizon Algorithm, Benders Master Problem, Set Partitioning Model, Column Generation, Lea Model, Cpm, Fuzzy Critical Path Analysis, Dea, Queuing Method, TP Model, Modi, Hungarian Method

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38 Role of plastic money post covid

Paper ID V8I5-1204 · Pages 257-259 · Management

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Credit cards were rolling ahead in terms of demand and usage, as of December 2019, a report by Crif High Mark showed. But since the covid-19 pandemic, people turn to mobile payments, and a recent S&P Global Market Intelligence report said that they have gained a lead over credit cards. As of December 2019, the credit card industry portfolio stood at ₹1,24,390 crore, a year-on-year growth of 44%. In September 2019, there were 3.25 crore active card borrowers, the number has grown at a compounded annual growth rate (CAGR) of 22% over four preceding years. The latest CRIF CreditScape report, released in May, stated that forecasts show that around one million credit cards will be sourced over the next five-six quarters. "Credit cards, once considered a product for the affluent, have expanded to consumers in tier II and III cities. Borrowers opting for a credit card for the first time have increased by three times in four years. Credit cards lead to increased purchasing capacity for consumers, especially millennials, and encourage usage by offering rewards and discounts on e-commerce portals." said Navin Chandani, managing director, and chief executive officer of CRIF High Mark.

Keywords: Credit Card, CAGR, CRIF

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39 A study on the value of promotion in the telecom industry of India

Paper ID V8I5-1206 · Pages 260-265 · Marketing

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(Gaj, 2022) Promotion is a type of marketing communication that is used in many sectors and in a variety of situations to help businesses achieve their goals, including bringing in new customers and retaining existing ones while also fostering customer loyalty. This research study offers a thorough examination of how promotion plays a role in influencing customers in India's evolving telecom market. This study delves further into the various promotional strategies employed by businesses like Airtel, BSNL, Vodafone Idea (VI), and Jio to attract customers and urge them to utilize their telecom services. The research looked at Jio's marketing approach of offering free internet and telecom service for three months after its start, and how this enabled Jio to draw in a lot of customers and grow into a significant business following its arrival. The research study also concentrated on the relationship between successful promotion and the development of consumer loyalty and a positive brand image for the business. Therefore, the study looks after the importance of promotion in the telecom industry can lead to a significant change in the buying behavior of the consumers in India, and also how it has helped the companies to gain a better position in the market by improving their market share.

Keywords: Promotion, Consumer Loyalty, Brand Loyalty, Marketing Communication

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40 Aviation industry

Paper ID V8I5-1205 · Pages 266-269 · Operations Research

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The aforementioned paper is an attempt to understand the aviation industry and address its most common problems. This is an industry that traditionally tends to operate on very thin margins. Considering the tremendous pressure that’s been building on them in terms of growth in the frequency of flights, the number of flyers, and high fuel prices, it’s important to sustain what’s under their control, and their clientele qualifies as the most important element. Operational tools help to find the solution to most of the problems faced while running this industry.

Keywords: Aviation, Industry

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41 Maggi out of a “big soup”

Paper ID V8I5-1202 · Pages 270-275 · Marketing

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Maggi as a word is one that each Indian recognizes and Maggi as a brand is one that each Indian loves. Over the years, Maggi Noodles has become an emotion rather than a brand. Bringing back nostalgic memories of childhood and solving instant food problems for all social classes; Maggi Noodles has always been the go-to solution. After being the household favorite for over 32 years, in 2015 was a ban imposed on Nestle’s Maggi Noodles. Combating a long fight was not easy for Maggi, especially as it was in the constant public light and there were people protesting (Reddy, 2020). To date, questions still arise about the health hazards of Maggi and this research has been conducted to understand just how much these questions have impacted consumer buying choices. We have done so by creating a survey asking various questions about the subject's relationship with Maggi, gathering these responses, and analyzing them. Some questions asked were ‘How often do you consume Maggi noodles? ,‘Did you crave Maggi during the Maggi ban?’, ‘Is Maggi a synonym for noodles to you?’ etc. Through this extensive research, we found the answers to our questions and realized that even though Maggi has had its fair share of setbacks, it is still the leading instant noodle brand in India and is loved by people of all ages alike (Ray, 2016).

Keywords: Household-Favourite, 2-Minute Maggi Advertisement, Lead, and Connecting Families.

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42 A study on negative impact of advertisement on children

Paper ID V8I5-1199 · Pages 276-280 · Marketing

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The purpose of this research is to make a review of the impact of television advertisements on children to understand the potential effect of TV advertising and specific pessimistic view of that exposure to young audiences. The study was conducted by using secondary data. Advertisement is a form of communication. It is about different products, services or ideas to its audiences. This paper deals with the analysis of negative impacts of advertisements on children which are telecasted on the television. In the present scenario TVs play an important role in our daily lives. The impact of advertisements on children is becoming catastrophic day by day. Findings indicated that television is not only providing entertainment, but also force young children to demand for must have items. Earlier, young children were off limits to advertisers and now they directly appeal to them. Advertisements create awareness among children in different aspects like entertainment, culture, news, sports and latest innovations & trends. In spite of this, all of these advertisements create a negative impact on children's minds. The adverse effects on children are interpreting and understanding the message being presented to them wrongfully. Aspects of the impact of TV advertising on children has spoiled their

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habitual actions, leading to pester, emerge conflicts and animosity in the family, increase the family budget, make demand for less nutritious products linked with obesity and poor health, imitate celebrities etc while it provides limited advantages.This paper deals with its negative effects and how to overcome those effects and provisional measures.

Keywords: Pessimistic View, Young Exposure, Adverse Effects, Miscommunication, Wrong Appeals, Television.

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43 A Study on Corporate Social Responsibility as a Marketing strategy

Paper ID V8I5-1197 · Pages 281-285 · Marketing

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This research paper provides a detailed review of corporate social responsibility being used as a marketing strategy. We take a look at all those impacted by CSRs, especially customers and employees. Customers tend to be more loyal towards companies which are socially responsible and an organisation performs better and improves their brand image along with goodwill. There has also been a significant increase in the spending of companies for CSR in the last few years. This comes as it positively impacts a company by being a marketing tool. Successful CSR activities affect consumer retention as it strengthens customer relationships and trust.

Keywords: Corporate Social Responsibility(CSR), Marketing Strategy, Brand, Image, India

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44 The Contribution of Social Media in Fueling Rebellion Among Teenagers

Paper ID V8I5-1223 · Pages 286-294 · Research

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Marketing strategists have utilized social media platforms to increase sales, establish brand identity, and raise awareness. However, there are difficulties in converting public participation into financial growth. As a result, the current study looked into the challenges and success of social media marketing in attracting customers. The food retail market in India was the focus of the study because it has a diverse retail pattern and a simultaneous rise in social media use and internet use. The quantitative component of the research helped identify the relevant factors that customers perceive as having a significant impact on social media marketing's efficacy. Interviews with social media strategists were part of the qualitative research component, which helped decipher the implemented strategies as well as the opportunities and challenges associated with social media marketing. Two major Jakarta-based retailers served as the subjects of the study. According to the quantitative results of the survey, consumers did not consider the social aspect of social media marketing to be helpful in achieving their goals. Customers' perceptions of the relevance of social media marketing were found to be

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significantly influenced by factors such as belief (relevance of social media in obtaining up-to-date information and the capacity to share experiences), community participation (active participation in a retailer's social media page and stimulating the retail brand), monetary (obtaining better prices and free coupons for making purchases), and psychological (seeking a sense of affiliation and belonging in the community and establishing and maintaining relationships with other members).

Keywords: India; Retail of Food; Marketing Via Social Media; Challenges; Opportunities

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45 Student attendance recording and performance analysis using a web application.

Paper ID V8I5-1225 · Pages 295-297 · Web Application

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Smartphones are becoming more preferred companions to users than desktops or notebooks. Knowing that smartphones are most popular with users at the age of around 26, using smartphones to speed up the process of taking attendance by university instructors would save lecturing time and hence enhance the educational process. This paper proposes a system that is based on a QR code, which is displayed for students during or at the beginning of each lecture. The students will need to scan the code in order to confirm their attendance. Face recognition and location detection techniques are also included in the app to verify student identity to eliminate false registrations The proposed model computes numerical reputation values for an entity and its aspects based on opinions collected from various platforms. Our proposed system also offers an advanced visualization tool that displays detailed information about its output.

Keywords: Attendance, Query, Feedback, Machine Learning, Performance, Analysis, Sentimental, Students, Teachers

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46 Are cryptocurrencies and digital assets in a bubble?

Paper ID V8I5-1208 · Pages 298-308 · Economics

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This paper aims to try to conclusively figure out whether cryptocurrencies and digital assets, which some investors call “assets of the future” are in a financial bubble, and using past data aims to find out what will happen if this bubble bursts, and what will be the future of this asset class. This paper hypothesizes that cryptocurrencies are in fact in a bubble, but due to the utility and use cases of this technology, some elements of this asset class may survive and may be able to fulfill the purpose of cryptocurrencies. Through the research conducted in this paper, it is concluded that cryptocurrencies were in an economic bubble, and the bubbleburst in 2022, causing massive losses. The paper, however, also concludes that some parts of cryptocurrencymay survive and like the hypothesis states may be able to be the future of finance as a whole, and fulfill theinitial purpose of why cryptocurrencies were created.

Keywords: Cryptocurrency, Defi, Banking, Bitcoin, NFT, Ethereum, Bubble, Burst, Decentralized, Blockchain

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47 Language learning website

Paper ID V8I5-1234 · Pages 309-310 · Education

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E-learning through electronic mail, the Internet, the World Wide Web (WWW), and multimedia is a result of developing digital technology and growing interest in the computerized delivery of education. It has become a potential source of learning since the emergence of the World Wide Web. Technology is revolutionizing education, altering how, when, and where people can study while also empowering them along the way. We have created an online learning platform that provides free language education using various tasks. The website fulfills the need of many people who finds difficulty in learning a language. This will help people to learn multiple languages in a quiz format. Furthermore, our approach also provides resources that can enhance learning.

Keywords: E-Learning, Language Learning, Multilingual, Online Learning

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48 Siddha management of Calcaneal Spur – A single case study

Paper ID V8I5-1236 · Pages 311-314 · Siddha

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A calcaneal spur also called an enthesophyte, is an abnormal bone outgrowth at the inferior part of the calcaneus bone which is a common cause of heel pain. The surgical treatment of plantar fascia release and excision of the spur is available but the complication includes incomplete pain relief and nerve damage may

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occur. Siddha treatment is one of the best for the management of calcaneal spur. A patient was successfully treated with kattukattal method is presented in this case study. Presentation of the case In this study, we present a case of the calcaneal spur in an adult woman of 36 years who did not have any chronic disease, treated with five sittings of kattukattal without any oral medication. The calcaneal spur was painful, which affected his foot function and was associated with plantar fasciitis. The spur length was measured using a radiograph. Methodology Here the patient is treated externally by kattukattal with Thirugukalli (Euphorbia tortilis), Thaluthalai (Clerodendrum phlomides), Notchi (Vitex negundo) leaves are stir-fried in castor oil and placed inside the banana stem, tied over the heel. This has Anti-inflammatory and Analgesic activity. After the first sitting pain was relieved partially and after the fifth sitting she had a great prognosis. The patient was assessed by LEFS, a self-report questionnaire, and Perceived pain intensity was evaluated by a visual analog scale. Discussion and Results The probable mode of action of kattukattal with heated herbs pacifies the vitiated vathakapha dosha and reduces pain and inflammation. This increases blood circulation at the heel region helps to flush out toxins material from the blood and reduces pain and local inflammation. This case confirms that kattukattal is an easy and economical procedure which can be performed at OPD level and can avoid injections, surgery and other proceeding complications.

Keywords: Calcaneal Spur, Heel Pain, Case Report, Kattukattal, Siddha Management

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49 Thermocycler + Pasteurization Cycle in cancer cure treatment

Paper ID V8I5-1232 · Pages 315-316 · Biotechnology

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Data reveals that use of Hybrid Platinum Grade Static Point Material in Building Thermocycler in the Robotic Set up of Medicine Manufacturing Unit helps to Increase the Properties of Cancer Medicines like Efficiency, Accuracy, Absorption, Distribution, Metabolism, Elimination etc in all Seven Dimensions thereby acting as an effective in the treatment of Cancer Cure. Doing Coding to Code for Etho Grade Energies like Etho Grade (Wave Energy + Radiation Energy + Ionization Energy + Laser Energy etc) with the help of Mother Computer & Super Computers in Thermo Cycler enhances the treatment capability to a greater extent in all Seven Dimensions. Increase in Pasteurization Cycle to 7777777……. to the Power ne helps in Purifying the Medicines in all Seven Dimensions. Thus, Both Thermocycler + Pasteurization Cycle helps to enhance the Power Code of Medicines in all the Seven Dimensions thereby making it Effective in the treatment of Cancer Cure.

Keywords: Thermocycler, Pasteurization Cycle

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50 Operations Research in the Retail Industry

Paper ID V8I5-1227 · Pages 317-325 · Retail

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The COVID-19 crisis is one of the most disruptive occurrences of the past several decades. Numerous studies in numerous disciplines, including consumer behaviour, have been motivated by its profound effects, necessitating an effort to review and organise the literature. This article provides a broad summary of the retail industry before and after covid. Changes in purchasing behaviours, modes of transportation, the development of retailers and the customers they target as a direct result of big data analytics, and a comparison of pricing policies in place before and after the emergence of covid.

Keywords: Consumer Behaviour, Big Data, Consumption, COVID-19, Perceptions, Literature Review, Purchasing Patterns.

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51 Social media is influencing the rise of NFTs and Cryptocurrency

Paper ID V8I5-1226 · Pages 326-329 · Finance

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Ever since the pandemic years, there has been a global wave in the popularity of Cryptocurrency and Non-Fungible Tokens (NFTs). Even people who don't have much knowledge about the financial world have heard these terms and a significant chunk have heard about it through social media that almost all of us use on a daily basis. The purpose of this study is to analyze the role social media played in making NFTs and Cryptocurrency Mainstream. In this paper, secondary data from previous studies were analyzed, and based on a review of the literature on the popularity of NFTs and cryptocurrency from social media, an online survey was conducted in which respondents had to answer three multiple-choice questions. Analysis of secondary data and responses demonstrated that social media fueled the skyrocketing popularity of Cryptocurrency and NFTs. The results are in line with the hypothesis and indicate that social media does play a major role in influencing the popularity of Cryptocurrency and NFTs.

Keywords: Cryptocurrency, Non-Fungible Tokens, Social Media

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52 Ethnic voting is determined by villages in homogeneous tribal societies in India with special reference to Nagaland.

Paper ID V8I5-1224 · Pages 330-340 · Electoral Behaviour And Competition

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Majoritarian politics somehow finds a footing even in homogeneous tribal societies and not only in heterogeneous social systems. The performance of a parliamentary Government within ethnic communities is expected to perform well, especially under the First Past the Post System. The alienation of certain communities and the exclusion of minorities from the positions of legislative leadership in policy-making may continue for generations. This is the dark facet of competition and electoral politics in Nagaland. The size of the villages corresponding to a high population becomes the prized possession of every legislator or person having political ambitions. Candidates vie the affection of these villages. This paper explains big village chauvinism and its effects on the political competition in Nagaland. It will further explore the idea of village politics dominated by big villages under the authority of traditions by asserting that the circulation of leadership is only within a few majority villages. Representation to the legislature gives leverage to the villages having Members to the Legislative Assembly in the state. These villages are more accessible to state resources. This paper will highlight the narrow field of recruitment to a career in politics and the entrenched traditions that forgets the minority.

Keywords: Tribal, Homogeneous, Majoritarian, Nagaland, Village.

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53 Agricultural Supply chain in India: A case study of Bihar

Paper ID V8I5-1237 · Pages 341-342 · Economics

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Agriculture and its associated industries provide the most employment opportunities in India. 70% of its rural households continue to rely on agriculture as their primary source of income, while 82% of its farmers are small and marginal. In 2017-18, the expected total food grain output was 275 million tonnes (MT). Despite the fact that the Indian state of Bihar is covered in fertile land and supplied by an abundance of rivers and streams, it has remained one of the poorest states in India. A substantial portion of Bihar's population is engaged in agriculture and related sectors. In this regard, the article attempts to evaluate the supply chain in the agri-industry in Bihar, as it is important for the socio-economic transformation of the state.

Keywords: Agriculture, Supply-Chain, India, Bihar

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54 Supply and demand control system for farmer’s market

Paper ID V8I5-1231 · Pages 343-345 · Supply Chain

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The farmers usually suffer and has to go through all the hassle just to get a poor deal for their hardwork. This is mainly due to the poor marketing strategies and farmers being unaware. Through our project this problem of

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the farmers will be resolved. Our application will help them to register their product to the market from anywhere. With the help of firebase the information can be stored and retrieved. The layout of the app is created using android studio.

Keywords: Demand and Supply System, Agricultural Produce, Farmer's Market

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55 Sentiment analysis on COVID-19 Vaccine

Paper ID V8I5-1243 · Pages 346-351 · Natural Language Processing

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In the current scenario of the COVID-19 pandemic, ensuring vaccination is a top priority. Our project aims to clarify people's attitudes toward vaccination against COVID-19. Various studies have already been conducted to measure mood associated with COVID-19 vaccines, but they all suffer from a major common flaw: poor mood classification accuracy. Our project aims to increase the accuracy of mood classification for COVID-19 vaccines compared to previous studies. In our project, we used ABSA (Aspect-Based Sentiment Analysis) and TF-IDF (Term Frequency-Inverse Document Frequency) models for sentiment classification. We also tested the classification accuracy using five traditional machine learning models: Random Forest, Naive Bayes, Support Vector Machines, Logistic Regression, and Ensemble Classification. For our project, we classify sentiment into three categories called positive, negative, and neutral. This in many ways distinguishes our project from the literature. First, according to the limited research we read, ABSA and TF-IDF were not used together. Second, most of the previous studies used the bag-of-words approach, an outdated model compared to ABSA. Finally, traditional machine learning models such as random forests and ensemble classification have never been used in ABSA and TF-IDF. This project provides higher accuracy than stated in our results as a mood classifier for COVID-19 vaccines, whereas previous studies have less than 67% accuracy.

Keywords: TF-IDF, ABSA, LSTM, BiLSTM, VADER, SVM, RNN

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56 Song recommendation system using emotion detection

Paper ID V8I5-1246 · Pages 352-355 · Computer Science Engineering

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Human emotion detection is an immediate need so that modern AI systems can simulate and measure facial responses. It also has advantages in the identification of intent, promotion of products, and security verification. Real-time emotion recognition from images and video is a very simple task for the human eyes and brain, but it proves to be very difficult for machines and similar machine learning tools. Basically, Image Processing techniques are needed for feature extraction supported by a reliable database trained in a Machine Learning model for the system. Several machine learning algorithms and tools such as Convolutional Neural

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Networks, OpenCV, Deep Learning, Eigen values, and Eigen vectors are suitable for this job and I intend to use these methods in this project. For machines development of different modules and then training them using various images and real-time feed is essential. Various leading institutions and researchers have trained their own models for an accuracy of approximately 50% and above. This project explores the ML algorithms as well as emotion detection techniques which would help us in the correct identification of human emotion and furthermore, implementation of the system into a useful application of a music recommendation system.

Keywords: Emotion Recognition, Deep Learning, Music Recommendation System, Human-Computer Interaction, Convolutional Neural Network

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57 Medical diagnosis using Machine Learning

Paper ID V8I5-1245 · Pages 356-359 · Machine Learning

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Health is certainly the most important asset of human beings which directly reflects in their progress or development. In this paper, we propose a machine-based system that can be used for medical diagnosis. The user would be able to upload his medical data through the web application which would be further processed by a machine learning model for health disease detection. Here we focus on major diseases such as Diabetes, Heart, and Kidney. The sole aim is to highlight and prove the benefits of Machine learning in the prediction of diseases and their diagnosis.

Keywords: Machine Learning, Disease Prediction, Data Mining, Smart Health Prediction

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58 Diet and lifestyle -key factors in the manifestation and prevention of the disease

Paper ID V8I5-1251 · Pages 360-362 · Ayurveda

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Nowadays prescribing medication as a first line of treatment is more common than modifying the dietary habits and lifestyle of people. Improper diet and a sedentary lifestyle are responsible for many diseases. A certain group of diseases popularly knowns as NCD or lifestyle disorders are directly related to these two factors. Ayurveda the most ancient science of medicine still aims at uprooting the cause of diseases rather than symptomatic relief. According to Ayurveda, to achieve and maintain Arogya (health) it is essential to practice healthy dietary and lifestyle interventions. A sufficient amount of safe and nutritious food is key to sustaining life and promoting health whereas improper and unsafe food items create a vicious cycle of disease. Similarly, lifestyle choice plays an important role in the manifestation, prevention, and treatment of the disease. Many lifestyle interventions mentioned in Ayurveda include avoiding the suppression of manifested urges and adapting Swasthavritta in the form of Dincharya, Nishachraya, Ritucharya, and Sadavritta have a huge impact

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on a person's overall health. One must adopt these dietary and lifestyle practices to achieve and maintain healthy living. This paper is an attempt to emphasize the importance of dietary and lifestyle behaviors in the manifestation and prevention of diseases, it enlists the various dos and don't that one must consider in day-to-day life for healthy living.

Keywords: Ayurveda, Prevention, Lifestyle, Dietary Regimes

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59 Validity and reliability study of Menopausal Maladies Scale (MMS)

Paper ID V8I5-1252 · Pages 363-368 · Nursing

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Menopause is a natural part of the aging process in women's life during which the women juggle multiple caring responsibilities such as providing care and support to both parents and children or grandchildren. In fact, the women are "sandwiched" between the responsibilities related to two generations. Menopause has various phases as mentioned by STRAW + 10 classification among which perimenopausal and early postmenopausal periods are more significant because the women suffer from most significant health problems due to estrogen depletion. If the problems are not identified in the early stage and treated these problems become sicknesses (maladies) and bring the women's life to an end. MENQOL, Menopausal Rating scale, and MODIFIED Kupperman's Index are popularly used tools to assess menopausal problems. The tool Menopausal Maladies Scale (MMS) is developed from the above-mentioned tools. MMS includes a wide range of items relating to the Maladies of menopausal women which mainly ley in the physiological and psychological domains. MMS physiological domain and psychological domain are further classified under physiological Maladies Skin, Heart, Sleep, Joint and muscular problems, and urogenital problems and Psychological Maladies include Depression, Anxiety, Stress, and Memory & concentration. The MMS was a reliable and valid tool to assess menopausal maladies.

Keywords: Menopause, Perimenopause, Postmenopause, Maladies, Content Validity Index, Criterion And Construct Validity, Interrater Reliability

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60 Digitalized Agricultural Resources Information System and Iot-Based Smart Farming

Paper ID V8I5-1271 · Pages 369-370 · Iot

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Grow more plants over a larger area, we need to use slower wattage lights. Overpowering the grow area, simply results in excess heat wasted electricity, and inner tip burn of plants. Lettuce is one of the most popular

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and faster-growing crops hydroponically. The changes in Temperature, and humidity will affect the growth of the plant. Hence plant monitoring is a necessary part of hydroponic systems. The difficulty of knowing the environmental information and nutrient requirements of the plant sometimes makes issues. The awareness of the above information is an important thing for hydroponic systems. Several types of sensors are required for monitoring the growth of hydroponic systems such as Temperature sensors, Light Sensitivity Sensors, Humidity sensors, etc. A microcontroller is needed for processing the output of the sensor data. A processor called Arduino can accommodate data from different sensors at the same time. The farmers will get the right information on the growth of the plants by using different sensors and analyzing data in such a way they will get more yield. The analyzed report will help the farmers to monitor the growth of the plants and improve the quality of the crops.

Keywords: IoT, Sensor

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61 Performance of Micro Unit Development and Refinance Agency (MUDRA) Yojana, an initiative of the Government of India

Paper ID V8I5-1259 · Pages 371-376 · Economics

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the project aimed at growing micro businesses. The data for MUDRA Yojana came primarily from MUDRA Yojana's yearly reports and website, but it also came from numerous journals, magazines, and periodical publications. The study looked at a variety of credit schemes and how they performed. To achieve the study's goal, statistical tools such as descriptive, percentage, and ANOVA were used to make meaningful comparisons among schemes, areas, financial institutions, total credit, and account numbers. The necessity of the hour is for a specific or more specialized financial institution to serve the credit needs of micro-firms, especially SMEs. The government's MUDRA Yojana project, which provides financial assistance to micro firms, has proven to be a successful undertaking. In many MUDRA Schemes, the growth rate of account opening and credit distribution is showing a favorable trend. The system has been widely adopted by marginalized groups, with women accounting for 73.41 percent of account holders and new businesses accounting for 25.16 percent. However, the northern states of the country show a lower level of participation in both account formation and credit sourcing. The majority of accounts are opened under the Shishu plan, while Tarun Scheme (Major Projects) participation is low. RRBs and PSBs are less likely than private banks to participate in the scheme, which is not a good trend in the long run. The government's microfinance project is progressing in a balanced manner.
Keywords: MUDRA Yojana, Micro Enterprises, Financial Assistance, Marginalised Groups.

Keywords: MUDRA Yojana, Micro Enterprises, Financial Assistance, Marginalised Groups.

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62 Rise of OTT Platforms in India during the Covid-19 pandemic

Paper ID V8I5-1255 · Pages 377-380 · Economics

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In this paper, we analyze the unprecedented rise of OTT Platforms in India during the Covid-19 pandemic. In the wake of rapid digitalization and increased penetration of consumer electronics devices, there has been a notable change in the way the audience chooses to consume content and media. This has led to the emergence of a large market for OTT platforms. This paper examines the notable change in the audience and their viewing patterns which have not only been key to determining how successful OTT platforms have been but also will be in the future. It is astonishing to note that by 2021 alone, we have spent 204 billion minutes watching material on OTT platforms, an increase of 181 billion minutes. The future of OTT in India is such that it is expected to outperform expectations and take the lead in the subcontinent's entertainment industry.

Keywords: OTT, Over the Top platforms, Television, Digitalization

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63 Angiospermic plants found in University campus Kota Rajasthan, India

Paper ID V8I5-1264 · Pages 381-386 · Taxonomy

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An attempt was made to prepare a floristic account of various Angiospermic plants found on the University campus in Kota. Extensive surveys were conducted in different seasons for consecutive years to analyze plant wealth found in this region. During the investigation, a total of 184 plant species were recorded. Of the total flora recorded species of the family, Fabaceae were the maximum followed by Poaceae and Amaranthaceae

Keywords: Angiosperms, Flora, Habit, Vegetation

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64 Solar Base Distributed Generation in the electrical distributed network using PSO and genetic algorithm with Ant Colony Optimization

Paper ID V8I5-1278 · Pages 387-395 · Department Of Electrical Engineering

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Energy plays a vital role for all humans as it can neither be created nor destroyed but can move/transform from one place to another. Modern living has realized the increased importance of energy as life moves faster; there is a significant need for fast communication, fast transport, and manufacturing processes. So, the energy industry forms one of the biggest consumer markets . The use of electric power system requires an alternative generation because of its great demand by the consumers. The electricity cost is calculated based on different proportions such as 50% for fuel consumption, 25% for distribution, 20% for generation, and 5% for transmission, which has created an alert to use or generate alternative power resources. For the distribution

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levels, the ratio of reactance to resistance (X/R) is low compared to transmission levels, which has resulted in high power losses and voltage magnitude reduced along with the distribution (radial) lines. The distribution systems must provide energy/electricity to each consumer at an appropriate form of voltage rating. The modern forms of power are involved, with multiple load centers and generating stations interconnected through the transmission and distribution networks. The energy-based power system's main Objective is energy generation and to deliver the energy/power to its customers at its rated voltage-based value with minimum losses. In heavy loading conditions, the reactive form of power flow is the primary cause of failures, reducing voltage levels simultaneously. So, there is a significant need to minimize real losses of power and improve Voltage in distribution systems. In such cases, a variation occurs in the network configuration, usually varying by the operation based on switching meant for transferring the load among the feeders. There are two switches used in distribution systems; one is generally a closed switch that usually connects two line-based sections. The other is the normally open switch placed on tie lines connecting two of the area's primary feeders.

Keywords: Optimization, DG, Solar, Genetic, PSO

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65 Social expectation and role dilemma: The challenges on women’s health

Paper ID V8I5-1285 · Pages 396-399 · Gender Studies

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ROLE CONFLICT AND WORK STRESS: IMPACT ON WOMEN’S HEALTH The realm of health takes fundamental concern in women’s life, which alter and may be altered by social themes. The domain of health embodies the entire range of issues related to illness, sickness, well-being, preventing, diagnosing, healing, caring, and curing. The health status of women in a society is the index standard, determining social progress. Working women experience greater ‘inter–role’ overload and conflict than either men or non-working women. Much of the household and productive tasks performed by women in India remain unaccounted for due to socio-biological factors. Women do a lot of ‘unpaid’ ‘free’ work at home as per ‘normal’, ‘natural’, and ‘traditional’ social expectations. There is convincing evidence that working women suffer from regular headaches and depression due to the stress of balancing multiple roles. Many potential women of high caliber suppress themselves from career advancement for the sake of a peaceful, stressless family life, considering service to the husband as the fundamental obligation of a woman’s life. Women’s responsibility as ‘providers’ or ‘care giver’ is central at home. While discharging their duties at home as per the expectations of others, woman mostly forgets to take care of themselves. The job ‘outside’, determines her ‘public life and the job ‘inside’ determines her ‘private’ life, working women encounter the ‘dual role dilemma’ This paper opens a window towards women’s ‘ill health’ due to the ‘intrinsic’ and ‘extrinsic’ ‘multiple-role’ conflict

Keywords: Dual Role Dilemma, Social Expectation, Ill Health, Women, Gender Roles

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66 Next Generation Risk Stratification of ICU Patients using Machine Learning

Paper ID V8I5-1287 · Pages 400-405 · Machine Learning

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Personalized Remote patient monitoring in the intensive care unit (ICU) is a critical observation and assessment duty required for precision medicine. We recently developed a cloud-based intelligent. We use a remote patient monitoring (IRPM) architecture that is state-of-the-art in risk classification. The most accurate prediction is made using machine learning, but with few characteristics that rely on vital indicators. Physiological characteristics gathered within and outside of hospitals are widely employed. We made a big contribution in this effort. enhance the basic IRPM framework's capability by developing three machine learning models for Measurements of readmission, abnormalities, and next-day vital signs We give a formally represented version of a feature engineering algorithm, as well as the construction and validation of three replicable machine learning algorithms ICU patient readmission, anomaly, and next-day vitals prediction models.

Keywords: Decision Tree, Random forest Classifier, SVM, Logistic Regression

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67 Smart Helmet Data Streaming

Paper ID V8I5-1277 · Pages 406-408 · Iot And Web Development

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The world is progressing towards modernity and people are becoming smarter. Today, the impact of technology in our lives is immeasurable and one of the greatest examples of modern technology is Smart Helmet Data Streaming which could be the light at the end of the tunnel. A smart helmet is a type of protective headgear used by the user(worker) which not only protects the user but also has certain smart functionalities like recording a video. The main purpose of this helmet is to provide video surveillance. This can be implemented by using ESP32-CAM and Arduino which can be streamed on a website. This makes it a smart helmet. ESP32-CAM comes with an OV2640 camera and provides an onboard TF card slot. The ESP32-CAM can be widely used in intelligent IoT applications such as wireless video monitoring, Wi-Fi image upload, QR identification, and so on. Which can be used widely for detecting crime, monitoring scenarios and activities, gathering evidence, arriving at the right decisions and maintaining records. Critical surgeries require to be broadcasted to a wider staff and students as a means for engaging, real-time learning. Live streaming can deliver high quality video from the OR to various users and devices. The literature survey done for the same is mentioned in further parts of the report. Around 7 IEEE papers have been referred to for the study and framing of the problem statement.

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Loopholes amongst the papers or future work mentioned in them provisioned the project with gap identification and thus trying to resolve the same.

Keywords: ESP32-CAM, Arduino UNO, Video Streaming, Website, smart helmet.

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68 IoT and enabling technologies for precision agriculture

Paper ID V8I5-1295 · Pages 409-415 · Internet Of Things

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IoT has rapidly changed the growth of every field. IoT refers to network of objects or Things that are connected to internet for making interaction with each other. Things always refer IoT devices, Home appliances and everyday objects which have unique identity. These Things are able to do remote sensing, monitoring and controlling capabilities. These objects have various interfaces for sensor connectivity, internet connectivity and storage. IoT is a predominant technology that automates the traditional activities of each and every filed. It is an umbrella technology that includes various technologies for its effective implementation. The objective of this paper is to present an overview of IoT and its various enabling technologies for an implementation of IoT in traditional agriculture. IoT technologies are broadly classified in to three major categories. They are IoT software, IoT Hardware, IoT Connectivity. IoT technology adaption will perform drastic changes in traditional agriculture. Precision Agriculture using IoT helps farmers to predict the exact requirement of water, fertilizer and pesticides that are directly related to the growth of the crops. Precision Agriculture also helps to predict the climate change, soil nutrition, plant growth and plant disease for enhancing the productivity and profit. Precision Agriculture is suitable for Indian Agriculture to optimize the scared agricultural resources for obtaining high yield. Precision Agriculture uses various sensors such as Temperature, Humidity, Pressure, Soil Moisture and Light intensity for gathering parameters directly from the farm land. These parameters are sent to the cloud database through local gateway for further processing. The collected data are analyzed in the cloud database for taking predictive decision. Precision Agriculture insists the farmers to react quickly for optimizing the scared natural resources, monitoring their plant growth, quality and diseases for achieving high yield and profit.

Keywords: Sensors, Cloud Computing, IoT Platform, Edge Ai/Analytics, Machine Learning, Deep Learning, FPGA, IoT Connectivity

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Students' linguistic difficulties facing bilingualism in high school in Madagascar

Paper ID V8I5-1289 · Pages 416-426 · Education

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Besides the political side, one of the reasons pushing the successive leaders of Madagascar to continuously change the language of instruction is its lack of mastery by teachers and students, especially French. This article reveals the results of surveys carried out among students and teachers in the final year of some high schools in Antananarivo concerning their linguistic difficulties. The observation and the report showed that Malagasy pupils do not master their mother tongue or French.

Keywords: Language, Language of Instruction, Language Difficulties, Language Proficiency, Language Insecurity

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