



3rd International Conference on Multidisciplinary Innovation in Academic Research

ICMIAR-2021

25th - 26th November, 2021

Chennai, India

Virtual Conference



Organized By Institute For Engineering Research and Publication (IFERP)



3rd International Conference on Multidisciplinary Innovation in Academic Research

(ICMIAR -2021)

Chennai, India 25th – 26th November, 2021

Organized By

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IFERP-Explore

Editorial:

We cordially invite you to attend the 3rd International Conference on Multidisciplinary Innovation in Academic Research (Virtual) (ICMIAR-21) on 25th-26th November, 2021.The main objective of ICMIAR-21 is to provide a platform for researchers, students, academicians as well as industrial professionals from all over the world to present their research results and development activities in relevant fields of Recent Challenges in Science and Technology. This conference will provide opportunities for the delegates to exchange new ideas and experience face to face, to establish business or research relationship and to find global partners for future collaboration.

These proceedings collect the up-to-date, comprehensive and worldwide state-of-art knowledge on cutting edge development of academia as well as industries. All accepted papers were subjected to strict peer-reviewing by a panel of expert referees. The papers have been selected for these proceedings because of their quality and the relevance to the conference. We hope these proceedings will not only provide the readers a broad overview of the latest research results but also will provide the readers a valuable summary and reference in these fields.

The conference is supported by many universities, research institutes and colleges. Many professors played an important role in the successful holding of the conference, so we would like to take this opportunity to express our sincere gratitude and highest respects to them. They have worked very hard in reviewing papers and making valuable suggestions for the authors to improve their work. We also would like to express our gratitude to the external reviewers, for providing extra help in there view process, and to the authors for contributing their research result to the conference.

Since September 2021, the Organizing Committees have received more than 90 manuscript papers, and the papers cover all the aspects in Science and Technology. Finally, after review, about 38 papers were included to the proceedings of **ICMIAR-21**.

We would like to extend our appreciation to all participants in the conference for their great contribution to the success of **ICMIAR-21** We would like to thank the keynote and individual speakers and all participating authors for their hard work and time. We also sincerely appreciate the work by the technical program committee and all reviewers, whose contributions made this conference possible. We would like to extend our thanks to all the referees for their constructive comments on all papers; especially, we would like to thank to organizing committee for their hard work.



Acknowledgement

IFERP is hosting the **3rd International Conference on Multidisciplinary Innovation in Academic Research- 2021** this year in the month of November. The main objective of **Multidisciplinary Innovation in Academic Research** is to grant the amazing opportunity to learn about groundbreaking developments in modern industry, talk through difficult workplace scenarios with peers who experience the same pain points and experience enormous growth and development as a professional. There will be no shortage of continuous networking opportunities and informational sessions. The session will serve as an excellent opportunity to soak up information from widely respected experts. Connecting with fellow professionals and sharing the success stories of your firm is an excellent way to build relations and be known as a thoughtful leader.

I express my gratitude to all my colleagues, staffs, professors, reviewers and members of organizing committee for their hearty and dedicated support to make this conference successful.



Rudra Bhanu Satpathy Chief Executive Officer Institute for Engineering Research and Publication (IFERP)



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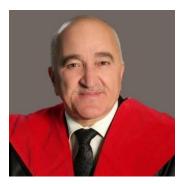
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3rd International Conference on Multidisciplinary Innovation in Academic Research

(ICMIAR -21)

25th– 26th November, 2021

Keynote Speakers



Dr Rami Al-Hadeethi

Vice President for International Relations, University of Victoria, Unit B, Suite 545, 63-66 Hatton Garden, EC1N 8LE, London, United Kingdom. Email: rami@uovl.uk

Message

The keynote is titled "Strategies of Students Assessment for Blended Learning",

This keynote will highlight the importance of e-Learning which prompted educational institutions to think seriously about incorporating it into the educational process. There are many reasons such as spread of students across the globe, time constraints, difficulties in physical attendance beside uncontrolled disasters such as the recent COVID-19 pandemic.

The keynote will present how student assessment has changed in the new millennium as new technologies are evolving daily to assist teachers with this task. Moreover, will highlight the biggest problem once we move into the online context is the comprehensive import of the face-to-face version of the course to the online medium.

The keynote will clarify that the following points:

• The online learning offers educators an opportunity to rethink their approach to assessment.

• There are many strategies you can use to evaluate students mindfully based on learning needs and objectives.

• The end goal of better assessment is better learning.

The keynote will end with some keys to the future of e-learning and concluding that using the assessment tool as a learning tool, rather than a measurement exercise, can enhance the learning experience.



Dr. Marc Moser Professor and International Visiting Faculty Saas-Fee, Valais, Switzerland.



Dr.Kiran Nair Director

MBA Program & Associate Professor of Management Abu Dhabi School of Management (ADSM), UAE



Dr. Deepak Tandon

Professor - (Finance & Accounting Area) Programme Director-Centre For advanced banking International Management Institute (IMI) Tara Crescent, New Delhi



Mr. Gary Cokins Founder and CEO Analytics-Based Performance Management LLC, The United States



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ICMIAR-21

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ABSTRACTS

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A Study on Dynamic Response of High-Rise Buildings Using High Damping Rubber Bearing Base Isolator

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Abstract

The destruction caused by a seismic event can result in both high casualties and economic damage to buildings and people who live in seismic hazard zones. Following each earthquake, a significant amount of damage has been documented, as evidenced by previous catastrophic events. These constructions must be protected from seismic activity to lessen the negative impacts on buildings without causing the entire structure to collapse. Many seismic retrofitting approaches are currently being used to preserve these RC structures and improve their performance during a seismic event. To counteract the effect of the seismic hazards, base isolation is one of the best techniques against the earthquake.

The seismic behavior of a structure with a fixed base and a structure with base isolation is studied in this work using linear and non-linear dynamic analysis as prescribed by IS Codal. The effects of different types of base isolator systems are considered in the modelling of RC buildings for symmetric and asymmetric plan configurations of both G+7 and G+10 storey heights, using the ETABS package. For isolated base and fixed base situations, many characteristics such as storey drift, base shear, Storey displacement, and time period are compared.

Index Terms

Base isolator, High damping Rubber bearing (HDRB), Storey drift, Base shear, Time period, Storey displacement.

Comparative study of Plyometrics pushups versus plyometrics drills exercises for throwing accuracy in basketball players

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Abstract

Introduction: Basketball is one of the most admired and recognized sports worldwide which is played in Teams. plyometric training is a simple method of giving a player a variety of exercises that will improve the three main functions i.e., speed, strength and agility, related to performance on the field. Plyometric training involves lengthening of muscle followed by quick shortening contraction that enhances capability of muscle to produce large amount of force.

Aim: To compare the effectiveness of plyometric trainings (Pushup vs Drills) on speed, strength and agility in aspiring Basketball players.

Materials and Methods: The present study entitled "Comparative study of Plyometrics pushups versus plyometrics drills exercises for throwing accuracy in basketball players." was carried out at Dehradun under department of physiotherapy. The present study had an experimental study design. 6-week plyometric training program included plyometric push up training and plyometric drills with the help of medicine ball (2kg). 30 male Basketball players in the age group of 18-25 years were included in this comparative study and randomly divided into two groups: Plyometric training for Group A (Plyometric pushup group) is (Clap pushup, lateral explosive pushups and linear explosive pushups) with 15 players in group and Plyometric training for Group B (Plyometric drills) is (Overhead throw side throw and squat throw) with 15 players in a group. All players were evaluated for upper limb strength, agility, running speed with Vertical Jump Test and S3P test. Basketball players performed warm up 15 minutes, Plyometric training 15 minutes, and cool down for 15 minutes. Paired t-test was used to compare the differences within the group and unpaired t-test was used to compare the difference between groups. Data was collected for all variables at baseline, 3rd and end of 6th week.

Results: This finding demonstrates the necessity of a plyometric conditioning program for enhancing performance of basketball players. In activities which involve acceleration, deceleration and a change of direction. The results of this study demonstrate that plyometric push up training is effective as compared to plyometrics drills with help of medicine ball in basketball training for upper limb throwing accuracy. As this training significantly improved performance in the plyometric push up group as compared to plyometrics drills with help of medicine ball training group.

Keywords

Plyometric Pushup, Plyometric drills, Basketball, exercise

Engineering Profession as a Career Parental Pressure or Desire: A Statistical Analysis

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Abstract

The purpose of this research is to evaluate the possible factors that influence the career choices of engineering students and While working on engineering, the positive and negative effects of parental pressure. In this procedure, I have used a descriptive survey of 158 students from various engineering branches of the private and government engineering colleges of Kerala. Male (78.5%) and female (21.5%) students were selected as samples in this survey. The survey results show the positive and negative effects of parental stress. Family influence does not necessarily have a significant negative impact. The stressors involved usually result in the loss of valuable intellectual resources; otherwise, these resources can make a significant contribution to society. Used the Social Science Statistical Package (SPSS) software for analysis.

A Gender wise study of Academic stress and it's source among Professional Students

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Abstract

Due to various expectations, stress has become part of the academic life of students. With changes at the personal and social levels, young people are particularly vulnerable to problems related to academic pressure. Therefore, understanding the source and impact of academic pressure is necessary to develop a fully effective intervention strategy. The main goal of this research is to understand if students are under academic pressure. Furthermore, this study also aims to understand if there are gender differences and stream differences in the academic pressure reported by the participants. The different dimensions of stress assessed by the measurement of academic stress also point to differences in gender and course. Assume that there are significant gender differences and mobility differences in academic pressure. It is also assumed that the dimension of stress will also vary significantly between gender and different streams. Researchers conducted online and offline surveys, Among the 200 students invited to participate in the survey (100% response rate), five-point Likert scale used for this study. The reliability of the questionnaire was calculated using chronback alpha (0.871).,the latest version of statistical software SPSS was used for the analysis part.

Keywords

Academic Stress; Gender wise stress, stream wise, Anxiety; Sources of Stress

Role of MGNREGA in the Rejuvenation of Rural Economy after Mega Flood

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Abstract

Kerala encountered a mega flood in August 2018. Almost every native of Kerala was affected by this disaster. Most vulnerable among them were the rural people. They lost their savings of a lifetime and even their livelihood too. In this study, we are trying to portray the increased dependence on MGNREGA in rural areas for livelihood after flood. For this study we have considered seven Grama Panchayats of Haripad block as our sample. These panchayats come under the Kuttanad region of Alappuzha district. The lives of the natives of this region mostly depends on agriculture and related activities. These people stands socially and economically weaker and very well represents the rural society of Kerala. We have collected secondary data from government sites and gram panchayat registers. This data was then analyzed using statistical and graphical tools. The analysis results evidently describes the increased dependance on MGNREGA by the rural economy after the flood in Kerala.

Index Terms

MGNREGA, Households (HH), Physical progress, Financial progress.

A Statistical Analysis of Household Expenditure and Income in Keral

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Abstract

The researcher attempts to determine each family's income and expenditure, how they differ from one another, how many families struggle to meet basic needs such as groceries, transportation, medicine, education, electricity, and so on, and, most importantly, whether expenditure exceeds income in families in this analysis. It is critical to examine the spending and income patterns of Kerala households, with an emphasis on income, expenditure, borrowing, and saving. The biggest determinant of an individual's consumption spending is his or her income level. However, income isn't the only element that affects expenditure, loans and savings also have an impact. Spending, of course, satisfies basic requirements. This analysis involved hypothesis testing that will be established between income and quality of life measures based on secondary data was part of this investigation. To assess the elements that influence household expenditure, a multiple regression model was utilized. The monthly household expenditure was the dependent variable, and a number of socioeconomic indicators were used as explanatory variables, based on data from a random sample of 100 families.

Keywords

expenditure, household, income, savings.

Covid Pandemic-Parents Concern on Higher Education

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Abstract

Due to the covid 19 pandemic, the world is currently using online schooling. In this new system, parents play a critical part in their children's education. This study focuses on the key worries that parents have as a result of the new system. A total of 100 data from parents with children in high school and higher secondary school were collected. To get at the final outcome, the data was analyzed using R programming language. According to the study, parents have a variety of viewpoints, such as trying to cope with the new mode owing to current issues, while others are more concerned. That is, parents are dissatisfied with online education and prefer traditional learning.

Index Terms

Covid-19, Online education, Parents concern, R-programming, Statistical tools.

Impact of Covid-19 Pandemic on Education in Schools of Kerala State

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Abstract

Covid-19's effect on our society shifts our traditional educational framework to online learning. To complete the educational curriculum, this modern mode of educational system uses a variety of applications such as Microsoft Teams, Zoom, Google

Classroom and others. In this study, the authors are attempting to determine whether this modern form of online education is beneficial or not. This article is based on the situations during the first phase of Covid-19. The authors conducted a comprehensive survey of 190 students from high school and higher secondary school to collect data required for the study. The data was then interpreted graphically and statistically using R programming language to provide a simple image of the subject at hand. Through this survey, the authors infer that online class have both benefits and drawbacks, but the disadvantages outnumber the benefits.

Key words

Education system, Google Classroom, Kite Victers, Online and offline classes. R-Programming, Traditional education system, Zoom meeting.

The Impact of Celebrity Endorsement on Consumer Attitude and Buying Intention

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Abstract

Advertising is often used to publicize and promote products. Measuring the amount of advertising that attracts customers is controversial. The objective of this work is to find out how much advertising influences consumer buying behavior. This study focuses on the various factors that influence their purchase decision, reason for their preferences for a particular brand, extend of brand loyalty and effect of celebrity endorsement on purchase decision during the purchase of readymade apparels. The data of 100 respondents are collected through a questionnaire and the results were analyzed by the latest version of SPSS. Data was evaluated through descriptive statistics, correlation analysis, and regression analysis, among other statistical approaches. Moreover, the tested attributes of celebrity show positive relationship. Furthermore, celebrity traits that have been studied have a positive correlation with purchasing behavior and brand perception. It was also established that celebrity endorsement has a substantial impact on purchasing decisions. However, regardless of the source of advertisement, customers place a higher value on product quality.

Index Terms

Brand image, buying behavior, buying intention, celebrity endorsement, quality of product.

Adoption of eSCM and TOE Framework: Impact of Firm Size

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Abstract

eSCM refers to "IT enabled support in implementing SCM process" (Wu and chang,2010). Adoption of eSCM promises improvement in performance by enabling collaboration and flexibility in the supply chain. eSCM helps the firms to serve the markets faster i.e. to attain agility in the supply chain. It is important to understand the factors that influence the adoption of eSCM by both large enterprises (LEs) and SMEs as both the groups have unique characteristics. For example, SMEs are more flexible and LEs have more resources. There exists a need in this area to conduct a holistic research on the factors affecting the adoption of eSCM in agile supply chain besides examining the moderating effect of firm size. An extensive literature review is conducted and a theoretical model is proposed based on the transaction cost theory, institutional theory and TOE framework to examine the adoption of eSCM in agile supply chain and to analyze how those effects are moderated by firm size, SMEs (vs) LEs. Propositions are formulated and future research directions are discussed.

Lean and Six-Sigma Principles for Green Building Development

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Abstract

In the construction industry, around 5% wastage in materials is incurred during exterior construction. The figure is appalling at 20% in case of interior works. Material waste increases process time and deteriorates quality, all of which affects the environment. Though green buildings reduce environmental impact, companies hesitate to adopt green due to higher estimated costs. After careful study, this work is able to attribute most of the additional costs to poor planning. This paper proposes that using Lean and Six-Sigma principles can save time, cost, and materials in green building construction. By implementing the same in toilet interior construction, significant savings were achieved throughout various processes, including up to 97.4% and 94.56% decrease in process duration for wall tile fixing and floor tile laying respectively. This study was also able to report up to 17.09% savings in material utilization for partitions and an overall 5-7% reduction in environmental impact. Extending this framework to entire buildings can be conducive to never-seen-before environmental conservation.

Emotional level cause detaches in text analysis using Pretrained BERT Model of NLP Technique

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Abstract

Emotional level cause detaches (ELCD), the process enterprise to extract the probable causes behind certain emotions in text, has grown much attention in recent years due to its wide applications.

However, every one of us will struggle with our emotions when we are in any emergency, the emotions must be annotated before its causes any critical end.

This approach has enhanced an important part of a wide range of applications including politics, business, advertising and marketing.

In this research, we propose a dynamic task extracting the emotions and the appropriate causes in the document by Recently, pre-trained Transformer based models (e.g., BERT, XLNet) have brought considerable breakthroughs in the field of natural language processing (NLP). In this research, we have conducted a systematic evaluation of the BERT model while analyzing the emergency texts.

Our research work discusses the results show that BERT model is more effective for emotional analysis or in future expansion with some other efficient models with accurate results.

Key words

ELCD,BERT,NLP.

Feature Extraction of Corneal ulcer and Images Classification using Deep Convolutional Network with VGG 16 Model

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Abstract

Corneal Ulcer is also known as keratitis, which represents the most often appearing induction among corneal diseases. Penalty such as irreversible eyesight damage or blindness requires an modern advance that enables a difference to be made between patterns of different ulcer stages to lower the global trouble of visual weigh down. This paper describes a Deep Convolutional Neural Network image classification advance allows the identification of different types of Corneal ulcers based extracting features of ulcer images. Our proposed method is tough relevance and allows automated extraction of meaningful features, manifesting a strong practical and theoretical consequence. The VGG16model represents a high-routine network for large-scale image classification and method for investigating CUs data preprocessing tasks. By identifying Corneal Ulcers at an early stage, we aid decline of provocation applying and induction tracking efficacyadapted medical treatment, which contributes to IT-based healthcare. Work can be better seen as two different tasks. In the first task, Data Preprocessing is used for feature extraction and classification task. In the second task, features are extracted using DCNN. Experimental studies shows that the performance of classification on DCNN extracted features are slightly better than the results of neural network classification on of DCNN.

Keywords

Feature Extraction, Deep Convolutional Neural Network, VGG16 model.

Impact of COVID-19 Pandemic on General Population: Vaccination, Age Group Analysis

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Abstract

Coronavirus disease 2019 (COVID-19) is a disease caused by severe acute respiratory syndrome coronavirus 2 (SARS CoV-2). It was confirmed on March 11, 2020, by the World Health Organization as pandemic disease. Regrettably, the spread of the virus and mortality due to COVID-19 has continued increasing daily. Hence, it is essential to rectify the spread of the disease extremely using nonpharmacological protocols such as quarantine, isolation, and public health education. A vaccine provides the favorable hope for a permanent antidote to controlling the pandemic. Considering the instantaneous need for global vaccination, the currently distributed vaccines have been generated with a quick period of testing and hence is a circumstance of concern among the society. Thus, this analysis was conducted to analyze the safety and effectiveness of vaccinations in the Indian state of Kerala. The study was a detailed questionnaire-based survey completed online by focusing on individuals aged ≥ 18 years. This work studied the effect of these different vaccines over different age groups under the Bayes theorem.

Index Terms

Age Group, COVID-19, SARS CoV-2, Vaccination

Assessment of Selected Hill Slopes Stablity in Aizawl Municipal Area, Mizoram, India

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Abstract

Mizoram is located in the north-eastern border of India. A survey conducted by Mizoram Remote Sensing Application Centre (MIRSAC) in 2015 has revealed that 12,705.69 square kilometers of Mizoram which accounts for 60.25 percent of the state's total geographical area, falls under 'seismic zone V', meaning that earthquake of high magnitude can rock the mountainous state anytime. Aizawl, the capital of Mizoram is a hilly region in which landslides are a common natural hazard. Landslides are caused by excessive rainfall, cutting of hill slopes, deforestation, steep slopes, and erosion. Properties of soil have great impact on the gauging of stability of slopes. In a hilly area, the higher the slope gradient and height, the less stable the slopes are. On the contrary, depending on the soil qualities, slopes with a lower gradient and height might also become unstable. To investigate the soil types, samples were collected from eleven (11) selected slopes of Bawngkawn, Muanna Veng, Ramhlun Complex, Mualpui, Saron, Lower Dinthar, Upper Dinthar, Durtlang, Kulikawn, Ramthar North and Tanhril which is located in Aizawl Municipal Area, Mizoram. Three (3) layers of soil were obtained at a depth of 30-60 cm from various selected slopes. According to field observations, slope angles in the impacted locations range from 30° to 60° and the slope height ranges from 12 to 25 metres. GEO5 software was used to perform Limit Equilibrium Method (LEM) analysis to assess the stability of slopes in the impacted areas. The data obtained from field observation and laboratory test were implemented during LEM analysis. Out of eleven, five of the slopes were found to be stable having factor of safety greater than 1.5 where six of the other slopes were found to be unstable having factor of safety less than 1.5. It can be concluded that, based on parametric analyses, the slope gradient has a consequential impact on slope stability

25th – 26th November 2021

Relevance of Queuing theory to relegate waiting epoch at the Covid-19 vaccination centre using simulated approach

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Abstract

Queues are a ubiquitous part of everyday life. Queuing theory provides a rich and useful set of mathematical models for the analysis and design of service process for which there is contention for shared resources. Delays are the result of a disparity between demand for a service and the capacity available to meet that demand. The Covid-19 pandemic has ravaged the world, posing an unprecedented threat to humanity. And Covid-19 vaccination programmes are underway globally. The primary goal of this paper is to provide a basic understanding of queuing theory and some of the specific queuing models that can be helpful in designing and managing Covid-19 vaccination centre. Data analysis can be done by collecting data from the primary health centre for a period of time.

A Comparative Study of Identifying the Most Prompting Nodes in a Network Using Efficiency of Navigating Agents

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Abstract

Graph theory and network analysis are related in the sense that graphical measures are useful to understand and measure the influence of each node in the network. A properly designed robots called basis elements are placed in the network at unique positions to monitor the activities of the components in the network. Metric dimension of graph is the minimum number of such robots and these robots navigating through the network can sense the shortest distance between any two nodes in the network. In this paper, we explicitly calculate the number of nodes identified by each of the robots and compares with those vertices located at a maximum distance from each of these robots. In that sense we identify the role of other nodes in a network by using two graphical measures namely capacity-l index and eccentricity of the robots.

Key words

capacity – l index, centrality, efficiency, eccentricity, metric dimension.

Ranking of Airports Based on Operational Efficiency Using PROMETHEE and CRITIC Methods

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Abstract

The operational efficiency of the airports has become vital of the sustainability of airports. This helps the airports to be recognised as best in terms of facilities for the passengers and also facilitates to increase the revenue by reducing the cost of operations. This paper deals with the ranking of international busiest airports. It has adopted the PROMETHEE GAIA method and CRITIC method for ranking of international airports and for the weights given to alternatives. It takes into consideration a sample of 50 international airports and the 9 comprehensive essential criterions like operational cost, accidents and incidents, distance from city centre , no. of runways etc to rank for the sustainability and efficiency of the airports .The result of the study ranks Dallas/Fort Worth International Airport, Dallas, Hartsfield–Jackson Atlanta International Airport Atlanta O'Hare International Airport Chicago, the best among the sample with regard airport facilities. The results can be used the decision makers of the airports at longer period of time.

Keywords

International Airports, PROMETHEE -GAIA Approach, CRITIC

A System to Detect Violations of Social Distance

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Abstract

Social distancing is an effective resolution by the World Health Organization (WHO) to minimize the faster break out of COVID-19 in public places. All the governments and national health bodies have set the 2-m as a mandatory physical distance for malls, schools, and other rush areas. The existing algorithms proposed and developed for object detection are SORT (Simple Online and Real-time Tracking) and CNN (Convolutional Neural Networks). The algorithm we are using is YOLOv3. Since YOLOv3 is one of the fastest real-time object detection Algorithms. This system is implemented using CCTV security cameras. For this, a model will be trained against the most comprehensive datasets like COCO datasets. So, identification of high-risk zones i.e. areas with the maximum possibility of virus spreading is done. This may help authorities to upgrade the outline of a public place and to take precautionary measures to diminish the hazardous zones. The progressed framework is a collective and précised solution for object detection that can be implemented in innumerable fields that include autonomous vehicles, human action recognition.

Keywords

social distancing, COVID-19, CCTV cameras, YOLOv3, high-risk zones

Road Safety and Traffic Management using IoT– Challenges, Issues and Solutions

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Abstract

In current trend IoT has a bigger important in various fields. In which road safety and traffic management is the most needed area for proper management of vehicles on road. As there is less human power these IoT devices are incorporated for providing assistance for human being with regard to usage. The more the usage, there arises problem of reliability as these data helps to avoid accidents in road. In this paper we discuss about the various challenges and issues faced when IoT devices are used and also about the solutions to be considered when the issues occurs in these devices when used for Road Safety and Traffic management for providing utmost safety for the drivers and pedestrians.

Keywords

IoT, Road Safety, Pedestrians

A Case Study of Job Implementation by Mgnrega in All Districts of Kerala

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Abstract

The MGNREGA is a vital scheme in the current context of international economic crisis and national economic strike, where increasing collective demand is a main mission for the government. It has been identified that the MGNREGA has the capacity to change rural fiscal and social affairs at numerous steps. The present study is based on the secondary data from different authentic survey sources. This study shows how much effective was the implementation of MGNREGA in various districts of Kerala State. Through this study we make an attempt to establish the relation on total households applied for job cards and relation on material expenditure based on the secondary data related to the districts of Kerala state. Also identify the information regarding the relationship on averages of total job cards issued, averages of total households demanded work and averages of total households allotted work under MGNREGP in various districts of Kerala state in the years 2011-2012 and 2017-2018.

Keywords

ANOVA, Correlation, Job cards, MGNREGA, Regression.

Identification of Brain Tumor with the Help of Convolution Neural Networks

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Abstract

Detection of brain tumors of the patients has always been a major issue for the medical practitioner and pathologist for diagnosis and treatment planning. It is also a fact that some tests may be timeconsuming and it gives workloads and difficulty for the pathologists to obtain the accuracy of the presence of the tumor. There are many techniques to detect brain tumors from Magnetic Resonance Images (MRI) images. In this research, we propose machine learning algorithms to overcome the drawbacks of traditional classifiers where the tumor is detected in brain MRI using machine learning algorithms. Machine learning and image classifiers can be used to efficiently detect cancer cells in the brain through MRI. This paper aims to make multi-classification of brain tumors for the early diagnosis purposes using convolution neural network (CNN). Three different CNN models are proposed for three different classification tasks. Brain tumor detection is achieved with 99.33% accuracy using the first CNN model. The second CNN model can classify the brain tumor into five brain tumor types as normal, glioma, meningioma, pituitary and metastatic with an accuracy of 92.66%. The third CNN model can classify the brain tumors into three grades as Grade II, Grade III and Grade IV with an accuracy of 98.14%.

Keywords

Magnetic Resonance Images (MRI), Neural Network, Convolution neural networks (CNN), Classification

Early Prediction of Brain Disorders by Machine Learning Classifiers

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Abstract

Medical image like MRI and CT-scan images are the important ways to diagnose disease of human being efficiently. The analysis of tumor based on visual inspection by radiologist/physician is the standard method, which may lead to some wrong classification when a large number of MRI images are to be analyzed. To avoid the human error rate, an automated intelligent classification system is proposed which need for classification of image. Brain tumor is also one of the disease which leads to the death of majority of people around the world. The chances of survival of people can be increased if the tumor is predicted correctly at its early stage. Magnetic resonance imaging (MRI) technique is used for the study of the human brain for finding of diseases. In this project, classification techniques based on Support Vector Machines (SVM) are proposed and implemented to brain image classification, feature extraction from MRI Images will be carried out by DWT. The main aim of this project is to give an better outcome that is higher accuracy rate and lower error rate of MRI brain tumor prediciton using SVM.

VLSI Implementation of Lossless ECG Compression Algorithm Using Adaptive Trending Prediction

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Abstract

ECG (electrocardiogram) is a test that measures the electrical activity of the heart. In this paper, an efficient and low power VLSI implementation of compression algorithm has been presented in this concept. To improve the execution, the proposed VLSI design uses bit shifting operations as a replacement for different arithmetic operations. Firstly, ECG compression algorithm comprises two parts: An Adaptive linear prediction technique and Content-Adaptive Golomb -Rice code. Further this project is enhanced by Adaptive trending prediction technique. Predictive coding is a lossless compression technique which allows a compact representation of data by encoding the error between the data itself and information "predicted" from past observations. The prediction techniques build an estimate x'(n) for a given sample x(n) of the signal by using the past three samples from the data.

Keywords

ECG(electrocardiogram), VLSI, Golomb Rice code, Adaptive linear prediction, Adaptive trending prediction.

Diagnosis of ECG signal for Signal Quality using Convolutional Neural Networks

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Abstract

In this paper, we propose a new automated quality aware Electrocardiogram (ECG) beat classification method for effective diagnosis of ECG arrhythmias under unsupervised healthcare environments. The proposed method consists of three major stages: the ECG signal quality assessment ("acceptable" or "unacceptable") based on our previous modified complete ensemble empirical mode decomposition and temporal features; the ECG signal reconstruction and R-peak detection; and the ECG beat classification including the ECG beat extraction, beat alignment, and normalized cross-correlation-based beat classification. Convolutional Neural network is used for classification and the results are compared with ECG beat classification. Parametric values like accuracy, sensitivity, specificity are evaluated. Matlab is used to perform the experimental results .

The exactness and robustness of the existing method are evaluated using Dissimilar normal and abnormal ECG signals taken from the standard MIT- BIH arrhythmia beat categorization method can significantly achieve false Alarm reduction ranging from 24% to 93% under noisy ECG recordings. The R-peak detector achieves the average Se 99.67% and positive predictivity (Pp) 93.10% and the average sensitivity (Se) 99.65% and Pp 98.88% without and with denoising approaches, correspondingly. Results further showed that the proposed ECG beat extraction approach Can improve the categorization accuracy by using CNN technique for categorization. By using CNN technique the results were better as the R-peak detection achieves in SQA.

Awareness of Polycystic Ovarian Syndrome among Females from Urban and Rural Area-A Comparative Analysis

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Abstract

Polycystic Ovarian Syndrome (PCOS) is a lifelong disease that begins during adolescence and can't be cured. It is a hormonal disorder which results in irregular or absent menses, excess male hormones (androgens) and fluid filled tiny cysts on the ovaries. Raising awareness among young females about the disease is essential for reduction of increasing incidence of PCOS. A survey was conducted in 3 colleges of Gurgaon district to assess awareness level of young females about PCOS in which 428 females filled self completion questionnaires. Questionnaires had 11 questions including signs and symptoms, psychological symptoms of the disease, complications related to it, diagnosis and treatment available for the disease. 18.45% (79/428) of population was urban, 29.20% (125/428) came from suburban area and 52.33% (224/428) was rural. 24.05% of urban population had heard about the disease while 16% of sub-urban and 17.41% of rural population had heard about it. 53.16%, 13.92% and 11.39% of urban population whereas 12.8% 7.2% and 12% of sub-urban population and 6.69%, 10.26% and 8.48% of rural population identified weight gain, irregular menses and facial acne respectively as sign and symptoms of PCOS. Although anxiety and depression were marked by 6.32% and 16.45% of urban population; only 4% and 7.2% of sub-urban; 5.80% and 3.57% of rural population marked them as long term psychological complications of PCOS. Diabetes was recognized by 2.53%, 2.4% and 2.23% of urban, sub-urban and rural population respectively while 7.59% urban, 3.2% sub-urban and 5.35% rural population identified ovarian cancer as long term complication of the disease. Physical check up and ultrasound scan were known by 11.39% and 7.59% of urban population respectively followed by 6.25% and 7.14% of rural population while 8% of sub-urban population knew about it. 2.53% of urban population followed by 4% sub-urban and 0.89% rural population were aware about hormone replacement therapy as a treatment. Present data shows there is lack of awareness about the disease among young females as more than half of the urban population (53.16%) could identify only one factor related to the disease, i.e., weight gain. Study also shows females from rural area have much less knowledge as compared to urban females of same age group. There is need to spread awareness about the disease especially in sub-urban and rural areas.

Keywords

Polycystic ovarian syndrome, awareness, hormonal disorder.

Indian millennials and gen Z: Attitudes towards Technology, Social Media Usage, and Psychological Health

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Abstract

The purpose of the present study was to investigate the role of sociodemographic variables on social media usage (SMU), attitudes towards technology, and mental health and the relationship among them. The sample consisted of 300 Indian young adults, of whom there were150 samples belonging to gen Z, with a mean age of 20 years, and 150 samples belonging to millennials with a mean age of 30 years. The sample was administered the MTUAS Scale, DASS Scale, and information about demographic details. The obtained data were analyzed using ANOVA and Pearson r. The results revealed that both female and male millennials had higher social media usage and a more positive attitude towards it when compared to gen Z. Millennials had better mental health than the Gen Z population. Age and gender interaction effect indicated that males experienced the highest anxiety about being without technology or dependence on technology compared to females. The negative attitude towards social media was low in millennial females and gen Z males compared to their counterparts. A positive relationship was found between anxiety about being without social media and depression, anxiety, and stress. Results were discussed, keeping widespread SMU, belief systems, and gender sensitization in mind and not disregarding India's youth responsible for taking the nation ahead.

Keywords

gen Z, Indian youth, mental health, millennials, social media usage, technology addiction

25th – 26th November 2021

In-depth Review of Different Price Optimization Techniques used by Omni-Channel Retailers

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Abstract

Easy access of internet has made the multiple options available to the purchasers which successively motivate the retailers to use Omni-channel features into their businesses. But to survive during these highly competitive market retailers need to keep observing the market and regularly re-price their products consistently with the competitor's strategies. To work out an optimal price in terms of price or revenue earned with the assistance of automated learning base approach may be a challenging task. In this paper, an in-depth review on various techniques used for price optimization in retail segment was done to know strengths and weakness of each method and also to know the suitability of method under specific situation. The study showed that model created using various machine learning algorithms is providing more accurate result. This state of art study is beneficial for the researchers to know the gap between the past researches and to understand the long scope of research.

Statistical Analysis on Post Covid-19 Diseases

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Abstract

COVID – 19 has created havoc in the world by causing thousands of demises in a short period of time. The disease has paralysed the world and causing thousands of mortalities and morbidities worldwide. The worldwide outbreak of corona virus was identified in 2019 in Wuhan, China. Since then, the disease has spread worldwide. Health systems globally are under grave siege with the presence of corona virus pandemic. Corona virus impact has significant impact on Social, economic and public health crisis that led to post Covid-19 diseases. This cram aspires to explore the impact of Post Covid - 19 syndrome in different categories of age group in five different district in Kerala, India. Three hundred sample data collected from different districts. Data analysis has done using various statistical techniques

A Study on Green Human Resource Management Practices and its effect on Employee Motivation and Organisational Commitment

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Abstract

Green Human Resource Management is a new conception and in fact has a boundless potential to oblige the humanity and industries as a whole. Many Commercial zone where issues related to environment and sustainability have received a prodigious deal of debates and arguments are selection, training, rewards and compensation of human Resource for sustainable businesses. The main aim of this research paper is to explore the relationships between various Green Human Resource Management Practices (Green Training and Development, Green Recruitment and Selection, Green Reward Management, Green Employee Involvement) and organisational commitment and Employee Motivation. Researcher has applied Exploratory Factor Analysis and Structural Equation Modelling in order to explore and examine the relationship amongst the variables that has been found out during reviewing the literature. The outcomes of this empirical research establish that out of four variables only two variables i.e. Green Recruitment and Selection and Green Reward Management were found to be statistically substantial as per results of this research work and these are also the key elements influencing the Employee Motivation and organisational commitment. There is no mediation effect of Employee Motivation was found between Green Recruitment and Selection, Green Reward Management, Green Training and Development, Green Employee Involvement to Organizational Commitment.

Survey on Various Secured Authentication Methods in Cloud Computing Environment

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Abstract

With increasing elasticity and flexibility, Cloud Computing obtained a huge momentum in recent past. Cloud computing is a prominent technology that is a combination of mobile computing and cloud computing which provides the support for various mobile applications. On the cloud, attackers can exploit vulnerabilities in cloud management, cloud virtualization and cloud access protocols. Recent attacks have shown that personal information can be disclosed, computing tasks can be maliciously altered and cloud services can be disabled for users. The study provides various methods on security mechanisms that is developed to secure the cloud system via encryption and decryption techniques. The models are presented in such a way that it offers increased support to the cloud environment relating to user data and privacy. The methods are obtained from various literatures to provide an overview on how well these methods adopt to cloud systems and its associated limitations. The study also presents the models relating to big data and security on big data storage in cloud environment.

Keywords

Security, Authentication, Cloud Computing, Data Privacy

Survey on Various Efficient Framework to Optimize Security Threats in Cloud Computing

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Abstract

Cloud Computing (CC) offers computing everywhere even at remote locations that tends to provide the resources on demand. The transformation from conventional applications and databases to cloud often poses security threats due to attacks and may not be trustworthy. In this survey, we present the machine learning frameworks involved to reduce the threats or eliminate the threats in CC using cloud security alliances and threat models.

The survey falls under various scope that includes application, data, service and infrastructure that includes the integrity, correctness, availability and confidentiality of data in cloud. The study further presents the security, issues and risks associated with the above scope and the framework to mitigate the cloud vulnerabilities.

Keywords

Security, Attack Models, Cloud, Threats

Comprehensive analysis of Mechanical Biological Treatment rejected fraction as a source of RDF

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Abstract

Refused Derived Fuel (RDF) could be considered as an alternative energy source that not only aids in waste management but also helps to minimize energy consumption and pollution in large industries. The potential for energy valorization of rejected municipal solid waste (MSW) streams processed in Katni mechanical and biological treatment (MBT) facility is studied in this research. Therefore, various physical and chemical analysis of mechanical treatment rejects (MTR) and composting rejects (CR), were carried out. The results show that MTR has a higher concentration of moisture content as compared to CR. The high percentage of organics in MTR is mainly due to the lack of a source separation system, poor mechanical treatment performance. The CR and MTR moisture content is around the standard range of SCF but there is need for moisture reduction by 10% in order to satisfy the criteria for RDF Grade I. It was found that MTR is better suitable for RDF production however if additional measures are taken then Composting rejects can be used as RDF, then under ideal circumstances 2562.3 tonnes per year of waste can be prevented from going to the Landfill and hence saving the energy of 26.44 million Joules/year. As a result, MTR and CR can be used as sources of RDF production and alternative fuels in the cement industry and thus helping in increasing the TSR in India.

Classification of Skin Disease Image using Texture and Color Features

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Abstract

Skin disease is quite one dangerous diseases caused by DNA, which can cause death. This damaged DNA begins to grow is cells without control, and nowadays it multiplies rapidly. There is some research for digitalized analysis of malignancy in skin ulcer images. However, the analysis these images are very challenging as they have some disturbing factors like reflection from the skin surface. Variations in color light, different shapes and sizes of lesions. As result, proofing is automated Recognizing skin disease is valuable for building the accuracy and skill pathologists early on levels. In this paper works to we propose convolutional neural network model derived from Deep Learning and these compared with some kinds of machine learning tools approach to Machine Learning techniques approach for accurate classification among these following seven types of skin diseases(/such as, Akiec,Bcc,Bkl, Mel, Nv, Df). In the preprocessing we first, use image resized and to converted RGB to Grayscale image for retrieve the graylevel features. Secondly , use a filter to eliminate noise and unwanted objects. Finally, normalize the input images and extraction features helps for accurate classification. To calculate our proposed presentation, the CNN model compared to some other Machine Learning models such DT,SVM,KNN,LGBM

Self-Paced Learning: A Challenge to Modular Distance Learners in the New Normal Education Setting

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Abstract

The pandemic has altered the lives and activities of people all across the world in ways that no one could have predicted. The once-in-a-lifetime circumstance presented both problems and opportunities to all segments of the community and society. The essential purpose of this descriptive qualitative phenomenological study is to explore the personal stories of students in modular distance learning using the Self-paced Learning Modules (SLMs). The Researcher sought insights, opinions, and ideas from six (6) low-performing students through a Key Informant Interview. In the light of the lockdown situation, data were gathered through phone and video calls and recorded, transcribed, coded, analyzed, and categorized responses into themes. Five emergent themes generated are as follows (1) Poor reading comprehension level, (2) Lack of alternative learning materials, (3) No strict daily learning routine, (4) No constant communication from parents and teachers for support (5) Unmotivated learning system at home. Findings revealed that the most challenging experiences met by students are the lack of reading comprehension and insufficient learning resources. With these findings, the school administrator and teachers should provide necessary learning strategies and supplementary learning resources to increase learners' performance.

Keywords

Self-paced learning, modular distance, new normal

Fantastic Computing Machine (FCM): A paradigm-shifting ML Model Deployment Strategy

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Abstract

Developing Machine Learning (ML) model is a difficult task, and then after successfully creating a working model, deploying and distribution is a bonus on the difficulty scale. In most instances, those models are never deployed. To help with this, we present FCM, a SaaS platform to allow users to dynamically deploy their machine learning models to the cloud and host them so that the user has complete control over the visibility and accessibility.

This delivery and deployment model provides lower upfront cost, timely updates, and a dedicated work/host environment. The platform's sole purpose revolves around the idea of a sharable deployed and ready to use Machine Learning Model. It takes advantage of the Continuous Integration and Continuous Delivery archetype facilitated by Kubernetes to dynamically provide custom and updated with the latest libraries docker environment.

Index Terms

Machine learning, Deployment models, docker, Kubernetes, Instances

Value Driven Strategy for Responsible Business: The Tesco case, UK

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Abstract

Almost all organizations are nowadays experiencing some types of change and it can be certain that there will be more, not less change in organizations in the future. Strategic transformation refers to the issues about culture, empowerment, business process engineering and total quality. However, other change initiatives are driven by the need for the organization so that the organization has to reposition itself (Balogun, 2001). Strategic change can be used to explain these initiatives since it indicates the actions undertaken by an organization in its pursuit of a competitive advantage and the organization which is undergoing strategic change moves from current operation and posture to an altered state in order to facilitating the achievement of competitive advantage (Sutherland and Canwell, 2004). Responsible business, in turn, is becoming an increasingly popular concept of business especially in Western nations such as USA and UK (Amaeshi et al., 2008). Nowadays, nearly everyone has heard of the concept of CSR and almost all companies have the policies or strategies for implementing parts of CSR because they already understand that the benefits of business are enormous (Aras and Crowther, 2012). Business can acquire competitive advantage and sustainable development in the efficiency of operation, enhancing the relation communication among stakeholders and contribution to society. Thus, corporate social responsibility should be an important factor when undertaking the process of strategic change. In this paper, there will be four sections. Initially, it will introduce the sources of the strategic change and corporate social responsibility based on the previous research. In the second place, the issues, which need to be considered when involve the process in the context of CSR and in relation to strategic change, in term of institution and corportates. Thirdly, the description of two different tool management about strategic change management will be attached within its organizational and competitive environment. Finally, there will be organizational analysis of Tesco based on the two tools.

Keywords

Tesco case; culture; responisble business, values; social sustainability; paternalism; UK

Innovation Oneotourism approach to wine positioning- The manifestion of tourism case in Vina Arnaiz, Spain

Pham Ngoc Thu Trang, Business Administration Faculty, University of Banking, Vietnam and PhD candiate, University of Economics, Vietnam

Abstract

The study consisted the introduction of selected enotourism activities, the indication of organization activies such as cost and prices and organizing details representing economic performance of the company and social effect of the company on society. The marketing and promotion section provided the main information on what kind of program, incentives and activities the company might use to promote the wine tourism at Viña Arnaiz, Spain. The feasibility of the research in turn forecasted investment, cost and revenue of this wine-tourism project. The investment and cost are more related to the willingness of the company to invest on wine tourism; hence, the number was adjusted to match the budget from the company but still feasible for making the business run. The forecast of investment was based on the historical data from the wine route of Spain and in Ribera del Duero as well as the expectation and forecast from the company as well as the intern himself. Then, the study demonstrated contents as well as some key learning points form the apprenticeship.

Keywords

Oneotourism, wine positioning, authencity, Spain, manifestation of tourism.

Image Processing System for disease prediction (AI in health care)

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Abstract

Artificial Intelligence (AI) is one of the emerging fields in healthcare. It is best fit for prediction modelling. In medical field one proverb is there, that prevention is better than cure, which can be best justified by the application of Artificial Intelligence. AI is basically a data driven model to converge to good results. Image processing is a well proven technique to identify different diseases for human. Different types of medical images from various sources are available. There exist strong image processing algorithms to identify diseases. Now, in the recent research AI is added with image processing and based on abnormality and existing database, prior hand disease can be detected. There are several tools as well as algorithms are available to process medical images and finally prediction model can be generated with the help of advanced AI model. The current work dealt with several medical image processing system for abnormality detection for disease prediction in association with artificial intelligence modelling.

Key Words

Artificial Intelligence, Image Processing, Disease prediction, Healthcare, Abnormality detection

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