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The readers and beneficiaries vary from academicians, professional engineers and scientists, to undergraduate and graduate students from all over the country.



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SOME NEW DIGITAL SIGNATURE ALGORITHM (DSA) BASED ON FUZZY

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Abstract- In this paper our study to design Digital Signature Algorithm (DSA) and improve security of Digital signature and analyze the applied attract.

Keywords: DSA, Fuzzy Logic.

RFI/TTME-2021/140

DETECTING THE IMMENSITY OF EXPRESSION IN WHATSAPP USERS USING 'R' LANGUAGE

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Abstract- In the present scenario the different social media apps/sites have empowered very person to effortlessly express & share their ideas and emotional state with the society or the publication and around the world. People, these days are comfortable in sending text for communication, which can be accomplished through different messaging platforms of social media available today such as WhatsApp, Twitter, Insta, Snapchat, Facebook, etc. so that instead of speaking their feelings out they find it very easy and convenient to express them. Sharing of ideas are not only done through texting but it can also take a form of calling. This process can be established among more than two people. The transmission of media is established worldwide in a group or between two individuals. WhatsApp is a platform where audio and video calls could be made and it is also used extensively for exchanging messages and media files. The aim of this piece of research is to recommend an effective method that can distinguish the level of positivity in WhatsApp users. The major goal is to set down a sense of comprehending the opinion levels in different users. The open-source data science technologies like Anaconda and R language have been used in this paper to understand the sentiment level of the communication in WhatsApp.

Keywords: Sentiment analysis, Emotional Integrity, WhatsApp Data, R Programming Language.

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STABILITY AND IMPULSE RESPONSE ANALYSIS OF OPTIMUM IIR FILTER FOR EEG ARTIFACT REMOVAL

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Abstract- Artifact removal methods are frequently being used for removing unwanted motion effects from the EEG signals. There are many filter design methodologies proposed in past for EEG filtering. The major advantage of such filter designing is to reduction in computing delay and filter order. There are many methods of designing the IIR filters. In this paper key goal is to evaluate the designed response spectrums of the different proposed IIR filter methods for EEG artifact removal designs. An IIR filter using combination of pass-stop band filter and the optimum reduced order filter is compared and the stability is tested for transfer functions. Filters are designed for removing EEG signals motion artifacts. The STEP, Impulse and pole zero response is compared for testing the stability of filters.

Keywords- EEG, IIR Filters, Stability, Step Pole Zero Analysis, and Reduced order IIR filter, Min MAX optimization.

RFI/TTME-2021/142

UNDERSTANDING THE ROLE OF PRIVACY, SECURITY AND TRUST IN INTERNET OF THINGS (IOT) - BASED SMART HOME DEVICES ADOPTION

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Abstract- With the recent advancement in technology, the Internet of Things (IOT) has been introduced to extend the benefits of internet from humans to devices and physical objects. In context of this technological advancement, several technology adoptions model have determined factors contributing to understand the consumer's intentions to adopt smart home devices. However, the role of privacy, security and trust have somewhat been unobserved as per the literature review. This study holds considerable significance as it proposes a new approach to IOT-based smart home devices adoption highlighting the role of privacy, security and trust. An online questionnaire was administered on a 5-point Likert scale and the sampling technique used is convenience sampling. The structural paths in the model were tested using SEM techniques. The finding provides valuable implications for researchers' as well as practitioners in context of product development and marketing.

Keywords: Internet of Things (IOT); Smart home devices; IOT adoption.

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EFFECT OF SERVICE QUALITY ON TRUST OF SHOPPING MALL

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Abstract- The present study has been focused on consumer behaviour about shopping malls. Customer can fire top to bottom of the organization with doing only switch to the competitors. They have both kinds of options if they don't want to go outside, they can order online for their requirements and if they want some refreshment they can go for offline shopping at mall. The current study will examine the behaviour of consumers when they purchase from mall. The quality of services they rendered from there, does it is sufficient to build their trust. The main goal of the study is to explore the factors of service quality that encourage shopping, analysing such e-commercial advantages as security, fast delivery, comparable prices, convenience, cheaper prices, wide choice, etc. A special attention for distinguishing factors contributing to service quality and trust in shopping from mall.

Keywords: consumer, behaviour, shopping, shopping malls, purchase, service quality and trust.

RFI/TTME-2021/152

APPLICATION OF ARTIFICIAL INTELLIGENCE IN THE FIELD OF ORTHODONTICS

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Abstract- Artificial Intelligence (A.I.) and its various approaches such as Machine Learning and Neural networks show great promise in almost every profession and field of interest. This new technology exhibits a high-level understanding of the problem and improves with increasing data and time. Orthodontics and dentofacial orthopedics is a specialty that deals with several variables in each step; from diagnosis to treatment planning, there always seem to be multiple correct ways of

approaching the same problem. A.I. It is useful for mimicking empirical knowledge because they estimate complex nonlinear relationships between input variables and output values. While this takes years of experience for an individual human the difference is that an artificial neural network can learn this process at a much faster rate.

Ranging from diagnostic procedures, treatment modality success prediction, and objective treatment plan suggestions A.I. shows significant promise in helping the clinician arrive at a decision. Application of neural networks has been shown to be successful in various steps of orthognathic surgery and treatment of Cleft lip & palate. The advantages and limitations of A.I.-based solutions for the field of Orthodontics are unique thus demanding careful application of this technology. The current state and potential of A.I.-driven systems in various aspects of Orthodontics and dentofacial orthopedics needs careful understanding and deliberation to ensure meaningful progress in this field.

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CHANGING FACES OF EDUCATION IN THE ERA OF DIGITALIZATION

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Abstract- Across the world the digitalization has fundamentally changed many aspects of the education processes and systems. Education sector unlike the other sector has seen many stages in its evolution. Students now take the test anytime and from anywhere, and therefore the result are going to be declared immediately just after the completion of the examination. Use of animations, images, audios and videos helped transforming method of learning to vary it into a replacement and effective way of learning. The information available on the web is provided by many people, and since there are not any proper guidelines in determining which websites are reliable, at this point students may need proper guidance in recognizing the standard source. Although many advantages accompany digitalized learning, there are also disadvantages that you simply should remember of, including and not limited to minimal to zero face-to-face interaction within the classroom, and therefore the lack of ability to figure face to face, an immediate impact on the Indian education system is that the diversity in purchasing power and affordability of the Indians. Despite this kind of loss, ICTs has increased the possibilities of the future, all students and teachers should work together and increase knowledge.

Keywords: Digitalization, Education, Information Communication Technology etc.

RFI/TTME-2021/154

IMPORTANCE OF TECHPACK IN APPAREL INDUSTRY WITH REFERENCE TO TECHNOLOGICAL TRENDS IN MODERN ERA

Prof. Dr. Shruti Tiwari

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Abstract- “Apparel industry encompasses Companies that design and sell clothing, footwear and accessories from basic products to luxury items. India is among the world's largest producer of textiles and apparel. The domestic textile and apparel industry contributes 5% of India's GDP, 7% of industry output in value terms, and 12% of the country's export earnings. (Gerrif g and memdo vic, 0.2003). To be successful in the industry, it is very important to understand the structure from both the perspective - manufacturing and retail. As well as the knowledge of market, product trends well developed package for the apparel production Needs to be kept updated. This study shows

the importance of techpack in comparison of spec sheets in the apparel industry with reference to technological trends in modern era.

Keywords: apparel industry, exports, tech pack, spec sheets, production, importance, trends, and Technical details.

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ACCEPTANCE OF E-LEARNING PLATFORMS INVOLVING INFORMATION & COMMUNICATION TECHNOLOGY

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Abstract- E-learning, also referred to as online learning or electronic learning, is the acquisition of knowledge which takes place through electronic technologies and media. E-learning is playing a vital role in the present educational scenario. It has potential to change the whole education system and due to this reason it has become the most preferred subject of the researchers. Research works on various disciplines like Education, Information and Technology (IT) and Distance Education. ICT, or information and communications technology (or technologies), is the infrastructure and components that enable modern computing. If its digital it is a part of ICT. Although there is no single, universal definition of ICT, it refers to all devices, networking components, applications and systems that facilitate interaction with the digital world. Sometimes ICT is used interchangeably with the Information technology. But ICT is more comprehensive, including more components related to computers and digital technology. Component includes data, internet access, cloud computing, software, hardware, transaction and computer technology. The paper focuses on the field of Information and Communication Technology along with the E-learning platforms.

Keywords: E-learning, Education, Cloud Computing, Digital, Information and Communications Technology.

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BIOINFORMATICS-A REVOLUTIONARY TOOL IN BIOLOGICAL THE STUDIES

Dr. Mamta Dubey

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Abstract- Present time information technology plays a vast role in all the field of studies. uses of information technology in biology termed as bioinformatics. Bioinformatics plays a role in the textual mining of biological literature and the development of biological and gene on tologies to organize and query biological data. Its a computational approach to analyze, manage and store data. For the analysis and interpretation of biological complexity large number of tools and software are available today. Apart from this bioinformatics also used in vast array of other important tasks including analysis of gene variations and expression, prediction of protein, phylogeny of drug designing and development, identification of organisms etc. Here in this communication we have tried to explain about the role of bioinformatics in various field of biological studies.

Keywords -bioinformatics, biotechnology, computational analysis, biological studies etc.

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A STUDY OF PSO OPTIMIZATION TECHNIQUE USED IN FACIAL EMOTION RECOGNITION

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Emotion is important in interpersonal communication and in improving one's social life. Facial emotion recognition has been widely used in the development of human-computer interfaces (HCI) and humanoid robots in recent years. Over the last few decades, facial expression recognition (FER) has evolved into an intriguing research topic and has made

significant advances in computer vision. The goal of FER is to detect human emotional states based on biometric traits. Creating a machine-based human FER system is a complex job. Facial expressions are one of the most versatile and self-explanatory nonverbal communication mediums for developing various Human Machine Interface systems. Methods for recognising facial expressions play an important role in graphics, 3D modelling, pain assessment, human-machine interaction, e-learning, clinical analysis, and other fields. A person's sentiments/state of mind can be expressed through facial expressions, but these expressions are not always good enough for recognition systems; they must be refined to produce accurate results. As a result, developing a robust facial expression recognition system capable of recognising human facial expressions and serving as an important component of natural human-machine interfaces is critical. This paper presents the review of Particle Swarm Optimization (PSO). Creating an effective facial representation from original face images is a critical step in facial expression recognition.

Keywords: Facial Emotion Recognition, Human Computer Interface (HCI), Facial Expression Recognition (FER), Particle Swarm Optimization (PSO).

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BIOINFORMATICS- MULTIDISCIPLINARY FIELD WITH ABUNDANT APPLICATIONS IN LIFE SCIENCES AND TECHNOLOGIES

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Abstract- In recent years, technological advancements have aided in the understanding of the genetic basis of phenotypes. In response to these developments, genomics and molecular biology techniques have shifted the paradigm of biological questions on a full genome-wide scale, revealing an avalanche of data and opening up a slew of new possibilities. On the other hand, the massive amount of data generated points of interest the challenges that must be overcome in terms of biological data storage (Moore's law) and processing. Bioinformatics and computational biology have attempted to address these issues in this context. As the name implies, bioinformatics is the application of computer tools and techniques to biological data for a variety of purposes. Aside from genomics and molecular biology, Bioinformatics is used in a variety of allied sciences, including environmental science, earth science, and artificial intelligence, healthcare systems etc. This review explores approaches, emerging methodologies, and tools that can give biological meaning to the data generated, as well as bioinformatics and its use in the analysis of biological data and widespread applications of bioinformatics.

Keywords: Bioinformatics, Genotypes, Computational Biology, Genomics, Artificial Intelligence, Healthcare, Earth Science, Biological Data, Drug discovery.

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DIGITAL MODE IN LIBRARY SCIENCE WITH SPECIAL REFERENCE TO VIRTUAL REALITY

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Abstract- Virtual reality replicates or simulates an environment. This environment could be real or imaginary; it also could be created using photography, videography, computer animation, or a combination. This paper deals with the notion of virtual or augmented reality and its suggested uses in libraries to support the teaching of information literacy. The computer-generated simulation of images or whole environments that can be experienced using special electronic equipment – is progressing in several ways, including traditional virtual reality that creates environments, allowing people to be “present” in an alternative environment.

Keywords: Virtual Reality, Simulation, Animation, Information Literacy.

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THE ROLE OF ARTIFICIAL INTELLIGENCE IN FINANCE WITH SPECIAL REFERENCE TO MANAGEMENT EDUCATION

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Abstract- The study attempts to impart conceptual knowledge of Artificial Intelligence in finance education. The study inculcates the role of Artificial Intelligence with special reference to management education under financial knowledge. This is possible only by the conceptual postulation of artificial intelligence and financial studies propounded under the reviews of literature. The study focuses on financial activity done with the help of machines (AI). This study spread the knowledge by financial activities accomplished with scientific tools like machines or Artificial Intelligence. The study has collected data from books, journal articles, reports, internet/websites, research papers, and newspapers. This paper has spread conceptual knowledge among the people of India. The study has covered qualitative practices from different knowledge perspectives. This paper also helps all learners to understand the role of AI in financial education.

Keywords: Artificial Intelligence, Finance, Financial Technology.

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AN OVERVIEW OF MACHINE LEARNING AND ITS APPLICATIONS IN HEALTHCARE

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Abstract- In recent years, there has been a greater emphasis on using machine learning to address complicated problems in a variety of disciplines. Similarly, machine learning usage in healthcare is increasing, fundamentally altering the face of health care delivery. Machine learning's fundamental goal is to deliver more positive results with more exact forecasts. The goal of this study is to show how machine learning technologies have become an important part of developing more effective and comprehensive methods that lead to better patient outcomes and enhanced healthcare practices. We'll also talk about the benefits of using machine learning technologies in healthcare and why it's necessary.

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BIG DATA HEALTHCARE SECURITY MODEL USING MACHINE LEARNING APPROACH

Somya Dubey

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Abstract- In any business, big data has fundamentally transformed the way firms handle, analyze, and exploit data. Healthcare is one of the most promising areas where big data may be used to make a difference. Big healthcare data has a lot of potential for improving patient outcomes, predicting epidemic breakouts, gaining new insights, avoiding preventable diseases, lowering healthcare costs, and improving overall quality of life. However, determining the permissible uses of data while maintaining security and the right to privacy of patients is a challenging problem. Big data, although beneficial to medical science and essential to the success of all healthcare organizations, can only be used if security and privacy concerns are handled.

It is critical to understand the limitations of existing solutions and foresee future research directions in order to provide a secure and trustworthy big data environment. In this work, we reviewed the most recent security and privacy difficulties in big data as they relate to the healthcare industry, analyzed how security and privacy issues arise in the context of big healthcare data, and discussed potential solutions. We analyzed the strengths and limits of recently proposed approaches based on anonymization and encryption, as well as future research objectives.

Keywords: Big Data, Cloud, Healthcare, Security, Analytics, Deep Learning.

Mr. Mohit Kumar Varma

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Abstract - One of the key difficulties in traffic management and system guidance has been traffic congestion in smart and big cities. The first problem, owing to rapid economic expansion and an ever-increasing number of cars, is to accurately estimate traffic flow information in order to reduce traffic congestion and accidents. Many academics have recently begun to concentrate their efforts on deep learning approaches, such as Recurrent Neural Networks (RNN), because of their ability to learn long-term dependencies of sequence data and capture the non - linearity characteristic of traffic flow. By considering different time intervals, this article employed three distinct types of recurrent neural network architecture, such as basic RNN, Long Short Term Memory (LSTM), and Gated Recurrent Unit (GRU). The information gathered from the California Department of Transportation in 2018 and 2019 was used; however, owing to inaccurate measurement and equipment problems, a few missing values were detected. The mean approach on the same hours was used to calculate and substitute the missing values in this study to assure the data quality to be trained in our models and boost model performance. In this paper, the LSTM model is suggested for both short and long time periods. The prediction efficiency was assessed using two prominent metrics: Mean Absolute Percentage Errors (MAPE) and Root Mean Squared Error (RMSE).

Priyanshi Dubey

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Abstract - Information technology has attracted many banks in India, by starting up new markets, new products and efficient delivery channels for the banking industry. In the development of our Indian Economy, Banking sector plays a very vital and key role. With the use of technology there had been an increase in invasion, effectiveness and good union. It has not only enlarged the cost usefulness but also has helped in making small value business viable. It also enlarges choices, creates new trade, and improves production and good organization. The focus is shifting from group banking to class banking with the introduction of value added and customized products. This new Technology allows banks to create new innovations in operations of banking with reducing efforts of manpower. Now a day's banking gives us facility of transaction 24 X 7 working, made possible by the use of Tele banking, ATMs, Internet banking, Mobile banking and E -banking. These technologies are being used to reach out to maximum number of customers at lower cost and in most efficient manner. The beauty of these banking innovations is that it puts both banker and customer in a win- win situation. Effective use of technology has a multiplier effect on growth and development.

Keywords: Digital Banking, Information Technology, Internet Banking, India, Digi-world, Digital Financial Services, Digital Evolution and Revolution.
