Artificial Neural Network (ANN) and its applications in EEG

Ameya Markale[#1]
Third Year, Biomedical Engineering,
Thadomal Shahani Engineering College,
Mumbai
Mumbai University
ameyamarkale@gmail.com

ABSTRACT

ANN (Artificial Neural Network) have a wide application in medical diagnosis, signal processing, computer vision, speech processing, gaming sector and many others. This paper reviews the applications of ANN in EEG(Electroencephalography). It also explores the application of Artificial Neural Networks in processing of EEG. This paper reviews and correlates with the previous published literature. There are several applications of ANN for EEG testing that have been discussed. Firstly, the application in investigating the use of ANN for compression and optimization of EEG parameters. Secondly, the automation of reading the EEG output more effectively and efficiently. The paper also discusses how ANNs can be applied to eliminate the artefacts while conducting the EEG test. It can be deduced that ANN have a major role in conducting, containing and interpreting the EEG tests and parameters.

Keywords: Artificial Neural Network (ANN), Electroencephalography (EEG), Input Output Mapping, Knowledge Representation, Compression

Role of Descriptive, Predictive and Prescriptive Data Analytics in HR: A Deep Insight into Talent Management

Geetika Parmar[#1]

Research Scholar and Assistant Professor, Faculty of Management (Under Graduate)
MIT World Peace University, Pune, Maharashtra, India
geetika.rathod@gmail.com

ABSTACT

The Human resources department of any big organization is becoming very demanding in terms of companywide HR operations. The management leaders are resorting to analytics solutions to extract meaning from the huge volumes of data to help improve decision making in HR especially pertaining to Hiring talent, retaining talent and Training & Performance management of employees. The objective of this study is to understand the role of descriptive, predictive and prescriptive HR analytics in various talent management business operations.
This paper covers the different aspects of the business analytics into the working of the organizations so that better productivity and performance could be extracted from the employees. It also describes the role of business analytics in order to manage the talent of employees. This study also looks into the different ways in which big data analytics is shaping Talent Management and also presents a review of literature available on transformation of talent management using Big Data Analytics tool.

Keywords - Predictive Analytics, Descriptive Analytics, Prescriptive Analytics, Business Analytics (BA), Talent Management, Big Data Analytics (BDA), Human Resource (HR), HR Metrics, HR Analytics

Renewable Energy in India – Contemporary and Future Panorama

Ms. Trisha Ravindra Vadil [#1]
Assistant Professor in Commerce, Department of Finance VVM's Shree Damodar College of Commerce & Economics, Margao,
Goa – 403601 INDIA
e-mail ID: trishaofthe.essence@gmail.com

Prof. Gajanan V. Madiwal [#2]
Principal Government College of Commerce & Economics,
Borda, Margao, Goa – 403601
e-mail ID: drgajananm@gmail.com

ABSTACT

Renewable energy technologies and innovations have the potential to respond to time honoured energy problems faced by developing countries. To tackle the lack of electricity wind, solar, geothermal, ocean, biomass, fuel cell etc are the renewable energy sources that can be used in India. India needs a guaranteed supply of 3–4 times more electricity than the total energy produced today in order to meet the energy needs of such a fast-growing country. One of the options for fulfilling this criterion is renewable energy. Today, around 33 per cent of Indian primary energy use is made up of renewable electricity. In India, effective renewable energy solutions are slowly being implemented as well as concrete steps toward greenhouse decrease, air purification and a sustainable future. Activities in India have been aggressively pursued during the last two and a half decades in the field of research, production, demonstration, manufacture and implementation of various green energy technologies for use in several sectors. Through this research paper attempts were made to summarize the essence, current situation, interventions by the government and potential prospects of Indian clean energy choices.

Keywords— Biogas, Renewable, Hydroelectric, Bio protein and Biomass.

Technology Enabled Learning: A Disruptive Transition towards Quality and Sustainable Open and Distance Learning

Mr. Mayuresh Shrikrishana Adsul[#1]
Assistant Professor in Commerce,
Department of Finance VVM's Shree Damodar College of Commerce & Economics,
Margao, Goa – 403601 INDIA
e-mail ID: mayuresh.adsul@vvm.edu.in

ABSTRACT

Constant technological advancements and booming ed-tech industry have resulted into phenomenal 'disruptions' in the educational sector worldwide. Technology Enabled Learning (TEL) has been of immense importance in transforming the creation and dissemination of online education, and Open and Distance Learning (ODL) is not an exception. Several 'user friendly' learning opportunities are available due to massive prioritization on TEL. TEL has become an undisputed measure to intensify and diversify ODL initiatives across the globe.
This research paper aims to review the prime TEL innovations those have metamorphosed or will augment the experience and outcomes of ODL; thus manifesting to be a quality and sustainable solution during turbulence, especially in the context of ongoing COVID-19 pandemic crisis and highlights the major ODL initiatives of the Government of India wherein TEL is playing a vital role in enhancing and promoting quality and sustainability of the same. The research paper also intends to emphasize in brief, the TEL at Goa University under its Directorate of Digital Learning and Initiatives (DDLI) and attempts to proffer practical suggestions to various stakeholders for creating sustainable realms that will enhance quality of ODL in India.

Keywords— Technology Enabled Learning and Open and Distance Learning

An Overview of Big Data and Hadoop

Prof. Sarika Sushant Panwal[#1]
Asst. Professor,
Nivrutti Babaji Navale College of Commerce and Science,
Lonavala

ABSTRACT

Modern information system and digital technologies such as cloud computing and Internet of Things emerges large amount of data every day in terms of petabytes. A huge amount of efforts requires to analyze large amount of data to retrieve meaningful information for decision making. Big data incorporates different technologies and techniques to store, manage and analyze massive amount of data. Big data allows to store structured, unstructured or semi-structured. The unstructured data created on the web in the form of images texts, social media posts or videos needs lot of efforts for analysis. This paper gives an overview on Big Data along with 4 Vs. This paper also discusses about challenges to the researchers. This paper also reveals about hadoop framework..The research paper focuses on various applications of Big Data.

Keywords: Big data, structured data, Semi-structured data, Hadoop, 4 V's