



International Conference on Engineering & Technology
(ICET-19)

Milan, Italy
10th June 2019

Academic Research and Development Association

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ARDA-Explore

Editorial:

We cordially invite you to attend the International Conference on Engineering & Technology (ICET-19), which will be held in Milan, Italy on June 10th, 2019. The main objective of ICET-19 is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Engineering & Technology. This conference provides opportunities for the delegates to exchange new ideas and experience face to face, to establish business or research relations and to find global partners for future collaboration.

These proceedings collect the up-to-date, comprehensive and worldwide state-of-art knowledge on Science Technology and Management. All accepted papers were subjected to strict peer-reviewing by 2-4 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 on Engineering & Technology but also provide the readers a valuable summary and reference in these fields.

The conference is supported by many universities and research institutes. 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 the review process, and to the authors for contributing their research result to the conference.

Since April 2019, the Organizing Committees have received more than 70 manuscript papers, and the papers cover all the aspects in Engineering & Technology. Finally, after review about 20 papers were included to the proceedings of ICET-19.

We would like to extend our appreciation to all participants in the conference for their great contribution to the success of International Conference 2019. 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 make 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

ARDA is hosting the International Conference on Science Technology and Management (ICET-19) this year in month of June. The main objective of ICET 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 sessions 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 become known as a thought leader.

I express my hearty gratitude to all my Colleagues, Staffs, Professors, Reviewers and Members of organizing committee for their hearty and dedicated support to make this conference successful. I am also thankful to all our delegates for their pain staking effort to travel such a long distance to attain this conference.



Dr. Simpson Rodricks
President
Academic Research and Development Association (ARDA)

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ICET-19

**International Conference on
Engineering & Technology**

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ABSTRACTS

The convergence between tradition and modernity and between innovative design and the history of culture- Irbid city as a case study

Samia Ayyoub Salim Ayyoub, Faculty of Architecture Engineering Department Yarmouk University, Irbid, Jordan

Abstract:--

The aim of this paper is to present the reader with the practices, the challenges and the benefits of the changing patterns in urban planning.

There is a need to implement measures that focus on the population's needs, and to merge the potential of urban planning and the townspeople's memories in response to the phenomenon of the redevelopment of downtown. The opportunity of the insertion of municipal administrators, developers, designers and most importantly townspeople in the operational process ensures the commitment to arising outcomes and enhances the potential of urban planning. Also, the process should have a restricted number of clear goals to avoid losing the space potential and the connections to the memories of the city's residents.

Redeveloping cities' downtowns have been a critical issue to tackle as the need arises to revive and modernize the old parts of the cities, usually ending with the destruction of the history and the place memories in those parts leading to the loss of its connection with the city's residents and erasing the spirit of the city piece by piece. One example of such approaches is observed on the reconstruction of Beirut, Lebanon Central District (BCD), starting from 1991 and the reconstruction of Al Abdali which is one of the most strategic and older locations in the city of Amman, Jordan in 2004

For this reason, this paper is devoted to new information, which can form the basis for the urban development. And set theoretical ground rules for cooperation with the public and allowing for their participation in the urban development process.

Keywords:--

Urban Design; Heritage; economic integration; urban design; urban perception; urban planning, memory of the space

Statistical Model for Personal Loan Prediction in Bhutan

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Abstract:--

Banking plays a vital role in functioning the economy of a country. One of the major role of banks is to provide credits. Time series models help to predict and forecast the number of future credit borrowers, which would help the concern authority to plan and work accordingly. In this study Box-Jenkins approach were used to model and forecast the number of personal loan consumers at Bhutan Development Bank in Bhutan. The study shows that ARIMA(2,1,2) works well in forecasting future number of personal loan borrowers. The best fitted models were tested based on forecast accuracy test such as Root Mean Square Error (RMSE) and Mean Absolute Error (MAE).

Keyword:--

Box-Jenkins, Loan, Bayesian Information Criterion, Banking

A research on Parents decision of buying toys for children in Hanoi

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Do Thi Phi Hoai, Finance Academy, Vietnam

Do Khac Huong, National Economics University, Vietnam

Abstract:--

Recently, Vietnam's economy has grown enormously. Together with the development in the fields of science, economics, information technology, etc., education and culture also achieve great development. The development of society improves the living standard and children's caring becoming more and more important because children are the priority and core target in the social development objectives.

However, the toy industry in Vietnam seems to be neglected although the industry. Up to now, there have been rare studies assessing the situation of children's toy consumption in the country as well as in Hanoi. For that reason, this topic of research is to understand the behavior of customers on children's toys in Hanoi.

Preliminary research was conducted by qualitative research through opinion poll and group discussion to find out five most influencing factors that affect the toy's purchasing decision of parents. Some parents' groups of under 15-year-old-children in Hanoi were selected for gathering opinion by taking the first-round survey. Then, the quantity of 200 forms were distributed equally (applying non-probability sampling method) among 4 main/central districts in Hanoi (50 forms per district). After collecting questionnaires, the data was encoded, analyzed and processed by SPSS.20 software.

This paper to explore and verify the main factors that led to parents' choice of toy products, which included children's impact assessments – as children are the primary users of this product - to their parents' buying decision in order to provide productive approach, suggestions and recommendations to Vietnam children's toy market.

Assess the extent to which market selection and mode of entry choices contribute to the success of international marketing

Ako MOHAMMED Tofiq, University of Halabja

Abstract:--

The organisations engaging in worldwide trade are made one of the significant decisions is the intercontinental market selection. So far, in spite of which significance, many organizations are taking the approaches in identifying profitable markets in the international context that are often based on ad-hoc decisions and intuition, Instead of an Officially attempt of competition the organization with suitable foreign target markets. This paper will discuss some of the salient issues and the Assignment is to Assess the extent to which market selection and mode of entry choices contribute to the success of international marketing, drawing from the available and relevant Assess the extent to which market selection and mode of entry choices contribute to international marketing. In this paper, several foreign market entry modes are discussed which is related to the following question: what are the issues and methodologies involved in the selection and mode of entry of internal markets? Also which of them has stronger choices contribute to the success of international marketing? The discussion will be followed by a summary and conclusion.

Keywords:--

Market selection, international marketing, foreign target markets

A Comprehensive Study of QoS Models, Frameworks & Protocols in MANETs

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Abstract:--

Mobile ad hoc networks (MANETs) are a combination of mobile nodes that are specifically configured and are connected by wireless connections automatically according to the routing protocol. A mobile ad hoc network (MANET) is a combination of different mobile nodes, which dynamically form a temporary network, without using any infrastructure such as wireless access points or base stations [1,10,13]. Quality of service guarantees is much more difficult, and very important in mobile ad hoc networks. There are many interesting applications such as multimedia services, health care, and disaster recovery and other support if they can support quality of service (QoS) for MANETs. But the quality of service providing in MANETs is very difficult problem in comparison to wired IP networks [14]. This is because certain node mobility, wireless multi-hop communication, contention for battery power, range of mobile devices and wireless channel, as well as the lack of a central coordinating authority. Therefore, the design of an efficient and reliable routing and quality of service support for such applications is a challenging task. This paper evaluates the performance analysis of some protocols and models of QoS.

Systematic review of body image: Socio-cultural, Intrapersonal and Marketing constructs

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Dr. Zainul Din Awang, Assistant Dean, UniSZA Malaysia

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Abstract:--

Systemic review measure the effect of socio-cultural, intrapersonal and marketing constructs on female body image concerns. Present applied systemic review to clarify the effects of deformational models from varies fields which lead females to feel dissatisfied with their own body. Part I of paper review the extensive literature related to socio-cultural variables (peer, parents, media), part II review literature related to intrapersonal variables (self concept, social comparison and internalization of thin ideal beauty) as well marketing variables (fashion magazines, advertisement and mass media). Researcher examine how should these variables cause body image issue in females. It was proved from findings that socio-cultural, intrapersonal and marketing constructs are strong predictor of body image.

Strategy Development for Wind Turbines NACA 6412 Decision making

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Abstract:--

The increasing of the population impact to the increasing of the energy demand. Indonesian non-renewable energy and the renewable energy demand increased faster but the energy supply is decreased, and the gap between demand and supply of energy is wider and wider. The government of Indonesia tries to shift and to look for an alternative energy to prevent future scarcity of energy resources. One alternative energy used is to utilize wind energy. The wind energy is no pollution, cheaper, and easier to maintain it. Wind energy potential in Indonesia is more than 90 GB and the production electric energy using wind energy has not been explored optimally. The research objective is to analyze the effect between the wind speed and number of turbines blades and the electric power generated by Vertical Axis Wind Turbine (VAWT) using NACA 6412. VAWT used 4, 5, and 6 unit turbine blades and the variation wind speed is 3.0 till 6.0 meter per second. The research variables are variation of wind speed and number of turbines blades, and the electric power is generated by VAWT. This research applies quantitative method is experimental design using two way classification and data simulation. The finding of this research reveals is 1). null hypothesis 1 is rejected, it is means that there is a difference effect between variation of wind speed to the electric generated power by VAWT. 2) The null hypothesis 2 (alpha 15 degrees) is rejected, it is means that there is a difference effect between variation of turbine blades to the electric generated power by VAWT. 3) The null hypothesis 3 is is rejected, it is means that there is a difference effect between interaction of variation of wind speed and variation of turbine blades to the electric generated power by VAWT.

Keywords:--

VAWT, Simulation, Energy, wind energy, strategic, turbine blades, NACA 6412

IceWater: 3D Mobile Game

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Abstract:-

“IceWater” is a 3D multiplayer game. In multiplayer, the game is played by a maximum of six players and a minimum of three. The game can be also played in single player.

The concept of the game is adapted to the classic Filipino game “Ice Water”. It has similar mechanics, except the researches added more features to the game. It is also partly like a tagging game, but it does not include the freezing part. The game has difficulty level of Easy, Medium and Hard. Each stage has three levels.

“IceWater” is an “Action-Multiplayer” game. Complete challenges by fighting with enemies and use a character of the player’s choice to represent yourself and jump into the action all together with many players. The target audience of this 3D Multiplayer Game “IceWater” are those children starting at the age of twelve years old and above. Simply because, they are known as the Gen Z. The reason for choosing them is because they are in the era of “techy” generation where most of the kids won’t go outside to play. In this way we want them to learn and appreciate how it feels like to play a classic Filipino game even though they are just playing with their mobile devices. The Theme of the “IceWater” is more of low poly type with different kind of ambience and entertaining design to make it more appealing to children.

The goal of the proponents for this thesis is to promote the culture of traditional Filipino games and to exhibit the fun of them to the children of today’s generation.

Deterrorize: 3D Mobile Game

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Monzon, Simon John C, Bachelor of Science in Information Technology, De La Salle University, Dasmariñas

Abstract:--

Deterrorize: 3D Mobile Game is a mobile game/application for Android mobile platform. This game is about terminating the evil within the terrorists that are invading different parts of the Philippines.

The game's main concept was inspired by the recent event that happened here in the Philippines. A place in Lanao Del Sur called Marawi was invaded by a terrorist group who claimed to be associated with Islamic State of Iraq and Syria (ISIS).

Deterrorize is a game that instead of killing the bad guys, the weapons of the protagonist make the bad guys, good. The weapon removes the evil thoughts and personality from the terrorists and increases the goodness within them, helping them turn over a new leaf. As the level go up, the number of terrorists increases, and their evilness are also heightened. Obstacles will arise upon each level, making it harder for the user to complete each level.

This project aims to create an Android mobile game that will tell the user to turn the terrorists into good guys instead of just killing them. This promotes non-violence methods upon dealing with people. It emphasizes the peaceful way of dealing with things to avoid resorting to violence that leads us to nothing.

iRize: Rice Production Management Decision Support System Using Decision Tree Algorithm

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Abstract:--

Agriculture has been one of the most important economic activities of man and is considered to be one of the largest and most significant industries in the world. This is perhaps with the fact that agriculture industry provides the basic necessities of man, particularly sustainable foods.

The integration of information technology in the field of agriculture facilitates and improves the efficiency of farmers' productivity by providing them timely data inputs for decision making. The need for them to have always updated with the latest information and issues regarding farming is necessary for them to become effective.

This study aimed to design and develop a decision support system for the rice growers of the first district of Ilocos Sur. The proposed iRize: Rice Production Management Decision Support System using Decision Tree Algorithm aims to guide the rice growers in their farming activities particularly on pest management and on making decisions concerning to rice farming.

The researcher adopted the Rapid Application Development software process as a methodology in the development of the system. The model consists of four phases, namely: Requirements Planning, User Design, Construction, and Cutover. Series of interviews were conducted to the agriculturist and rice growers to determine the problems and challenges they encounter during cropping period. Data were gathered through questionnaires.

Keywords:--

Decision Support System, Rice, Rapid Application Development

Android Application: PlaceDat-local place finder

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Abstract:--

“It’s more fun in the Philippines!” as the saying goes, Philippines is such an amazing and beautiful country, from its incredible places like paradise islands, beautiful nature and mouth-watering foods, right through its lovely local spots. In addition, it is an affordable country to travel; you will get great value for your money. And since the world has become more and more mobilized, many developers create applications that would capture the attention of the users, and would be very useful. PlaceDat is an application that shows the different places in the Philippines specifically in Luzon area. It is not just the place, but it is categorized by the activity that can be done in specific place. It is a local place finder and travelling application that is on the go for Filipinos, and for tourists who want to explore the Philippines specifically the rich regions in Luzon.

With the use of Agile methodology, the researchers were able to develop an application using Android Studio platform. The Java programming language makes the application more efficient and user-friendly.

The application’s software quality was evaluated with an average rating of 4.62 where 5 is the highest scale based on the ISO 9126-1.

Synthesis, Structural, Morphological & Mechanical studies of Mg²⁺ and Gd³⁺ co-doped Ceria electrolyte system for LT-SOFC

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Abstract:--

This paper reports the effect of Mg²⁺ addition on the structural, micro structural & mechanical properties of Ce_{0.8}Gd_{0.2}O_{2-δ}(GDC) electrolyte for low temperature solid oxide fuel cell application. The Mg²⁺ (0, 0.5, 1 and 2 mol %) doped GDC solid electrolytes have been prepared by solid state method. The sintered densities of the samples are around 95%. XRD study reveals the cubic fluorite structure. The microstructure of the samples resulted into grain sizes in the range of 4.3 to 0.868 μm. Raman spectra also confirms the presence of GDC single phase. Mechanical properties of Mg doped GDC samples discussed.

Keywords:--

Conductivity, GDC electrolyte, impedance, ionic conductivity, activation energy

Measuring the quality of banking services in Sulaimanyah by using SERVQUAL (The case of Cihan Islamic Bank)

Mustafa Othman Alsaigh, Cihan University Sulaimanyah

Blesa Ibrahim, Cihan University Sulaimanyah

Abstract:--

The objective of this study is to measure the customer satisfaction gap and to reveal the gap between the perceptions of Cihan Islamic Bank customers and their expectations for the level of services provided by the bank through a sample customer questionnaire. SERVQUAL was used to measure the quality of service after it was developed to suit Quality of service offered by Cihan. The difference between perceptions and expectations has been measured in the areas of equipment and facilities, reliability in handling, responsiveness, trust in handling and customer care.

The methodology of scientific research imposed that this study include addressing the quality of performance as an important option in this regard, which must be consistent with international standards and current systems with a bias towards the leadership and firmness.

Der Großmann: A Survival Horror Game Using A* Algorithm

Nilsey Diaz, Student, De La Salle University – Dasmariñas, Cavite, Philippines

Grace D. Caibog, Student, De La Salle University – Dasmariñas, Cavite, Philippines

Michael Roi M. Tubid, Student, De La Salle University – Dasmariñas, Cavite, Philippines

Sherry B. Naz, Thesis Adviser, De La Salle University – Dasmariñas, Cavite, Philippines

Abstract:--

This game entitled, Der Großmann: A Survival Horror Game Using A* Algorithm, was developed to bring entertainment to all gamers who are into interactive thrill and logical thinking. The development tools used for the game were Unity 3D for coding and animation, Autodesk Maya for designing the characters and settings, and other development applications necessary to make the game playable. The game was tested for quality of its performance using the ISO Model 9126-1 with the participation of high school and IT/CS students who were able to engage in the game firsthand. The outcome of the study was evaluated and assessed carefully resulting to a considerable and successful outcome.

Security and Surveillance for human welfare

Nishant, Student, Department of Mechanical Engineering, Guru Govind Singh Indraprastha University, New Delhi

Abstract:--

Problem-Day to day problems have been arising , if we take the problems I saw in the hilly region of the Uttarakhand state of the India I was aimlessly sad, so I started doing research on their wire connectivity and network connectivity.

After watching those things continuously I came to conclusion that there are issues facing these were due to natural disaster, human and animal welfare. Either they were stolen or being damaged especially there solar plates and connectors.

Solution- I came up with the solution to develop a bio sensor identifying as a human being or the animal that will define the reaction of the security setup I will make for that that will be connected to a drone and the LED screen presenting the whole scenario.

Analysis of Sentiment Analysis Techniques

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Abstract:--

Sentiment analysis is an application of natural language processing. It is a very popular field of research in text mining. It is also known as emotion extraction or opinion mining. The basic idea is to find the polarity of the text and classify it into positive, negative or neutral. To perform sentiment analysis, one has to perform various tasks like data preprocessing, sentiment classification, polarity assignment, aspect term extraction, feature extraction etc. This paper presents the survey of main approaches used for sentiment classification.

Determining factors influencing on decision making by using logistic regression

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Dr. Hassan Mustafa Tabra, Assistant Professor, University of Kurdistan Hewlêr

Mustafa Othman Alsaigh, Assistant Lecturer, University of Kurdistan Hewlêr

Abstract:--

The issue of decision making is one of the important issues, in administrative sciences because of its direct impact on individuals, communities and countries, as most of the problems that individuals, communities and countries are faced from making incorrect decisions. The development in management sciences and the uses of quantitative methods of treatment because of decisions are affected by a set of factors or variables. In this research we consider the variables or factors related to the superiority illusion and the level of ambition through the use of logistic regression technique to know the variables with the moral Influence in decision making and order according to their importance. Ten variables were collected by means of a questionnaire prepared for this purpose, a model was developed to predict the effect or non-effect of the decision on the environment and the result of the analysis showed that the factors influencing are ((X3) my decision making is based on rational reasons) (X4 - I discuss the decision to be taken collectively) (X7 seems to me life without hope)) and the correct classification rate of the model that was built was 81%.

Linguini: Natural Language to SQL Queries Translation as a Conversation SaaS

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Abstract:--

With the ever-increasing amount of world's information stored in relational model database system, it is imperative to have intelligent interfaces for interaction with that data. This should be done in such a way to allow even non-SQL users to interact with that data effectively by almost all sections of an organisation. Generating executable queries from users problem have been a long-standing problem, which has been gaining much momentum recently. Trivial systems use sequence to sequence models but their generalised nature doesn't seem to exploit the full structure of an SQL query. In this paper we explore and implement the existing state-of-the-art model for generating SQL from natural language question proposed by Xu et al.(2017), for the SELECT column and operator parts of the SQL Query along with a chatbot interface to return graphical insights for any non-technical user to understand the results easily.

Wastewater Treatment Using Orange Peels

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Tatiana MUNTEANU, University Politehnica of Bucharest, Faculty of Biotechnical Systems Engineering, Bucharest, Romania

Gigel PARASCHIV, University Politehnica of Bucharest, Faculty of Biotechnical Systems Engineering, Bucharest, Romania

Abstract:--

The purpose of this paper was to study the biosorption potential of orange peels, investigated through the process of Nickel (II) ions removal from synthetic wastewater. The effect of initial Ni²⁺ ions concentration and the contact time between the bioadsorbent and metals ions from wastewater on the efficiency of the adsorption process was investigated. According to our results, the maximum efficiency of Ni²⁺ removal from wastewater was around 90% at a 5-5.5 pH. The adsorption process attained equilibrium within 6 h. In conclusion, we can affirm that orange peels has been proved to be an efficient adsorbent for removal of Ni²⁺ ions from wastewater

Mathematical modeling of a rope vortex in swirling flows

Elena-Corina Cipu, Department of Applied Mathematics, Faculty of Applied Sciences, University POLITEHNICA of Bucharest, Romania

Abstract:--

Appearance of a rope vortex in swirling flows under the runner of Kaplan and Francis hydraulic turbine are studied. The ratio between the two lengths, that is the length of the rope vortex type and the height of the column water in which it appears, H , is specified. The calculus is made for the case of a curve on a surface described by a half spindle surface and frustum of a cone. We compute the ratio between the length of the rope vortex and the characteristic length H . Some conclusions were made.

Keywords:--

Vortex, swirling flows, spindle surface

