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Authors: Issa Khalil ALHasanat, Ayman A. Rahim A. Rahman
Paper Title: The Fact of use Mobile Learners at the Arab Open University in Learn Arabic language

Abstract: This study aims to investigate the fact of the use of mobile learning at Arab Open University students in order to help them to learn Arabic, and study sample consisted of (245) students, who study decision Arabic for primary school teachers, was applied to identify prepared by the researcher on students to identify these uses, and contain this questionnaire four axes, namely: mobile phones used by students, and mobile services that benefit students to learn Arabic, and the purposes for which Students use mobile phones, and the obstacles faced by the students’ learning through mobile phones (m-phones) to learn Arabic. The study concluded with a set of recommendations to contribute to improve the use of the Arabic language learning via mobile devices, based on what resulted from the results of the study.[1]

Keywords: Smartphone, technology, instructional aide

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Paper Title: Implementation of Encrypted Visual Cryptographic Shares using RSA Algorithm on FPGA

Abstract: The project presents an approach for encrypting visual cryptographically generated image shares using RSA algorithm. The Visual Cryptography Scheme is a secure method that encrypts a secret document or image by breaking it into shares. A distinctive property of Visual Cryptography Scheme is that one can visually decode the secret image by superimposing shares without computation. By taking the advantage of this property, third person can easily retrieve the secret image if shares are passing in sequence to repeat the process until all pixels are

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encrypted/descrypted.

Keywords: Visual Cryptography; Encryption; Information Security; VCshares

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Authors: Alhamzah Taher Mohammed

Paper Title: Design and Enhancement of Space-Time Block-Code for MC-CDMA OFDM by Phase Matrix in Flat and Selective Fading Channels

Abstract: In this paper, we combine a space-time block code (STBC) with multi–carrier code division multiple access (MC-CDMA) system. MC-CDMA is probable to be one of the most promising access methods for future wireless communication systems. In fact, MC-CDMA achievements the benefits of both the orthogonal frequency division multiplex (OFDM) multi-carrier modulation and of the code division multiple access (CDMA) technique. A development of space-time, block-coded (STBC) multicarrier code-division multiple-access (MC-CDMA) system using phase matrix in multipath fading channel is proposed, and the performance of the system is analyzed. The bit error rates BER numerical results show that the better performance of the STBC-MC-CDMA system with phase matrix can be achieved when comparing with system without using phase matrix. As a result, it can be seen from the proposed technique that a high performance improvement was obtained over the conventional MC-CDMA, where the Bit Error Rate (BER) is mainly reduced under different channel characteristics for frequency selective fading and the AWGN channel.

Keywords: STBC, OFDM, MC-CDMA, OFDM, IFFT, DFT, Phase matrix.

References:

Authors: Alhamzah Taher Mohammed

Paper Title: Zvezdan Stojanović, Dušan Savić

Abstract: new services, like IPTV, VoD, broadband access to Internet have very high demand for the bandwidth.
xDSL technologies are mainly used as solution for this demand by the greatest operators in Bosnia and Herzegovina (BH Telecom, M:TEL). That technologies have restriction regarding from the distance between central office (CO) where is operator’s equipment and subscribers. Solution for this problem is some form of the next generation access (NGA) technology which is used in European Union (EU). In this paper is made comparison between situation with broadband technologies in European Union and BiH with possible direction of development. It is described why broadband technologies in access network is so important.

**Keywords:** triple play, quadruple play, NGA, FTTx

**References:**
11. http://www.interonet.ba/

**Authors:** Ali Mirshahi, Hashem Mirzaei Najafi, Mohammad-R. Akbarzadeh-T, Maryam Ebrahimi Nik

**Paper Title:** Automatic Quality Enhancement of Radiographic Images by Fuzzy Logic

**Abstract:** Although much progress has been made in X-ray imaging, conventional radiography is still used in many developing countries as well as less developed countries due to its lower cost and availability. These conventional approaches are however significantly influenced by multiple factors such as sensor and environmental noises, age of developer and fixing materials, exposure factors and the experience of the operator. The goal of this study is to apply a novel post processing technique to get digital image advantages with conventional radiographic images. Specifically, we propose a novel fuzzy system to create a standard gray scale level image. As a result, image details are clearer and can be better enhanced by morphological edge operations. This image enhancement can lead to faster and more accurate interpretation by medical professionals. A number of experiments on rats, rabbits, and birds confirm utility of the proposed approach.

**Keywords:** Computer-Assisted, Fuzzy Logic, Radiography, Image Enhancement

**References:**
Abstract: Due to its vast application, maintaining the connectivity and forwarding the information in mobile ad hoc network (MANET) is very crucial to increase the efficiency as well as the performance of the system. One way of guaranteeing this performance to a large and dynamic network is through clustering. A number of researchers came up with a variety of approaches and performance metrics for ad hoc clustering. In this paper, we have presented a comprehensive review of various proposed clustering schemes for MANET. The classification and analysis of these schemes are done depending on their cluster formation. Descriptions of their approaches, evaluations of their performance, discussions of their advantages and disadvantages of each clustering schemes are presented. We believe that this paper will enable readers to get more understanding of ad hoc clustering and indicate research trends in the area.

Keywords: Clustering, CDS, Mobile ad hoc Networks

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35. Hui Cheng, Jianmeng Cao, Xingwei Wang, Sajal K. Das, Shengxiang Yang, Stability-aware Multi-Metric Clustering In Mobile Ad Hoc...
Abstract: The study aims to apply the strategy to help deaf students and dumb in academic achievement by using mobile learning technology application. This sample of the students have a high potential for the use of mobile applications and have a capacity of great learning via mobile. Smart mobile phones have the ability to create a good educational content of images, shapes, graphics and illustrations appropriate signs to the Deaf and Dumb students and the production of educational content suitable for individual differences in education between them and meets their needs mental and their interests that are different from ordinary students in Education. The paper focuses on the educational content of the component images, graphs, and illustrations appropriate signs to the Deaf and Dumb students because it is not easy to understand by a normal listener on the opposite and to make things worse. In fact the technology is used to achieve the interaction between deaf and dumb children with others.

Keywords: Educational Content, Deaf and Dumb Student, Scalability, Integration, home user, institute user, provider user.

References:
1. N. Hema , Ms. P. Thamara , Dr. T. V. U. Kiran Kumar (2013), Handheld Deaf and Dumb Communication Device based on Gesture to Voice and Speech to Image/Word Translation with SMS Sending and Language Teaching Ability.

Authors: Majzoob Kamal Aldein Omer, Mohmed Sirelkhtem Adrees, Osama E. Sheta

Paper Title: Alternative Central Mobile Application Strategy to Deaf and Dumb Education in Third World Countries

Abstract: The study aims to apply the strategy to help deaf students and dumb in academic achievement by using mobile learning technology application. This sample of the students have a high potential for the use of mobile applications and have a capacity of great learning via mobile. Smart mobile phones have the ability to create a good educational content of images, shapes, graphics and illustrations appropriate signs to the Deaf and Dumb students and the production of educational content suitable for individual differences in education between them and meets their needs mental and their interests that are different from ordinary students in Education. The paper focuses on the educational content of the component images, graphs, and illustrations appropriate signs to the Deaf and Dumb students because it is not easy to understand by a normal listener on the opposite and to make things worse. In fact the technology is used to achieve the interaction between deaf and dumb children with others.

Keywords: Educational Content, Deaf and Dumb Student, Scalability, Integration, home user, institute user, provider user.

References:
1. N. Hema, Ms. P. Thamara, Dr. T. V. U. Kiran Kumar (2013), Handheld Deaf and Dumb Communication Device based on Gesture to Voice and Speech to Image/Word Translation with SMS Sending and Language Teaching Ability.
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Authors: Abhishek M. Kinhekar, Parmalik Kumar

Paper Title: Router Node Placement in Distributed Sensor Networks: A Review of Optimized Methods

Abstract: designing a distributed wireless sensor network can be an arduous task if not done with simulation tools. Simulation with a tool should provide a robust and efficient solution of the problem with quick response time but available simulation tools for designing these wireless sensor networks are very limited. Pugelli, Mozumdar, avagno and Sangiovanni-Vicentelli[1] proposed an interactive design tool that can assist rapid design of sensor network. This tool synthesizes networks using Dijkstra’s algorithm but its execution time is very high when the network size is relatively large (n≥50). Moreover, it produces sub-optimal solution with large number of router nodes. In this paper, we present efficient and robust synthesis algorithm that exclusively reduce running time.

Keywords: wireless sensor network; router placement; synthesis algorithm; Simulation Tools

References:
12. M. Gibney, M. Klepal, and J. T. O’Donnell, “Design of underlying network infrastructure of smart building,” in Proc. 4th Int. Conf. on...
Abstract: The recent advancements in Distributed Wireless Sensor Network has stimulated the need for the newer and enhanced version of algorithms, which will not only reduce the delay in the processing but also consumes much less power. Distributed Sensor networks are most employed and have much scope for their optimization in working. In this paper we explore to find and compare about wireless sensor network, router placement, synthesis algorithm and simulation tools of DWSN.

Keywords: wireless sensor network; router placement; synthesis algorithm; Simulation Tools

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Keywords: Cloud Computing, Cloud Analyst, Scheduling algorithm, Virtual Machine Load Balancing.

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Authors: Sanket Panda, Shauoya Nigam, Rohit Kumar, Mamatha HR

Paper Title: A Performance Study of SIFT, SIFT-PCA and SIFT-LDA for Face Recognition

Abstract: Humans have the ability to identify faces instantly with minimum effort and inspired by this, Face Recognition (FR) tries to imitate this ability by using numerous effective algorithms and has been extensively developed in the last decade. FR has received a lot of attention because of its wide range of its applications. Since Humans store and retrieve images instantly when needed, FR imitates this procedure by holding images in a database and trains them to recognize faces. Although many impactful algorithms have been developed, they are not entirely effective in unconstrained settings. Hence, we thoroughly compare the SIFT method and its two variations SIFT-PCA and SIFT-LDA to prove that the variations are better alternatives to regular SIFT.

Keywords: Face Recognition; SIFT; PCA; LDA.

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14. Križaj, Janez, Vitoaš Štruc, and Nikola Pavešić. “Adaptation of SIFT features for robust face recognition.” In Image Analysis and
Abstract: Technological advancements have brought extensive research in the field of Image Fusion. Image fusion is the process of amalgamation of relevant information from a set of input images into a single image which in turn is better informative, complete and accurate. This paper presents an overview of Image Fusion. The silhouette of the paper is anticipated to cover Image fusion right from its inception till the future research prospects. This covers the various fusion systems and techniques of image fusion such as Spatial Domain methods like Weighted Pixel Averaging, Select Maximum/Minimum, Principal Component Analysis (PCA), Frequency/Transform Domain methods like Pyramid Decomposition (Laplacian, FSD, Ratio, Gradient, Morphological), Discrete Wavelet Transform (DWT) and Artificial Neural Network (ANN) based image fusion. A comparative study of various image fusion techniques and their analyzed results are enlisted. Vivacious applications of image fusion also are highlighted as well. The compendium is concluded with the analysis of better approach as a result of the comparative study and the future scope of research perseveres.

Keywords: Image Fusion, Discrete Wavelet Transform (DWT), Weighted Pixel Averaging, Select Maximum/Minimum, Principal Component Analysis (PCA), Pyramid Methods, Artificial Neural Network (ANN)

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9. Eldad Perahia, Michelle X. Gong, “Gigabit Wireless LANs: an overview of IEEE 802.11ac and 802.11ad “, Intel Corporation

Authors: Aktham Hasan Ali
Paper Title: Design and Performance of Code Division Multiple Access Physical Layer Transceivers in Flat and Selective Fading Channels
Abstract: Code Division Multiple Access (CDMA) is the technology used in all third generation cellular communications networks, and it is a promising candidate for the definition of fourth generation standards. The wireless mobile channel is typically frequency-selective causing interference among the users in one CDMA cell. In this work, CDMA Transceivers block has been studied widely, and an analysis of proposed model based on Orthogonal frequency-division multiplexing OFDM based Fourier transform on in Flat and Selective Fading Channels
Keywords: CDMA, OFDM, IFFT, FFT, Flat Fading, Selective Fading, Channels .

References:

Authors: Fatima Faydhe AL-Azzawi, Saleim Hachem Farhan, Maher Ibraheem Gamaj
Paper Title: M-FSK in Multi Coding and Channel Environments
Abstract: Frequency-shift keying (FSK) is a frequency modulation scheme in which digital information is transmitted through discrete frequency changes of a carrier wave currently used by manufacturers of low power low data rate data transmission equipment. The power efficiency of this modulation increases as the signal alphabet increases at the expense of increased complexity and reduced bandwidth efficiency. Most early telephone-line modems used frequency-shift keying (FSK) to send and receive data at rates up to about 1200 bits per second. In this paper M-FSK have been tested under multi-channel environments AWGN, Rayleigh fading and Risian fading channels in term of BER with coherent and non-coherent demodulation and deferent Size of modulation constellation, Improving techniques used to enhanced the performance of the system under AWGN where convolutional code with hard and soft decision, extended Golay code and Reed-Solomon code, the ratio of energy in the specular component to the energy in the diffuse component (linear scale) and diversity used to improve the performance under Rayleigh and Risian fading channels.
Keywords: M-FSK, FSK with matlab, M-FSK coding, multi-channel.

References:
Authors: Kanwaljeet Singh, Avtar Singh Buttar

Paper Title: Study of Spectrum Sensing Techniques in Cognitive Radio: A Survey

Abstract: The wireless traffic is increasing in an unparalleled way, which causes radio spectrum shortage. The fixed spectrum assignment policy makes this problem more critical. Cognitive radio is one answer to spectrum scarcity problem. In Cognitive radio, the licensed bands are opportunistically accessed when primary user is absent. The first step to a cognitive radio network is the spectrum sensing. An efficient and fast spectrum sensing can make cognitive radio more useful practically. In this paper we discuss several spectrum sensing techniques used in cognitive radio. The vacant frequency spectrum is first sensed by the cognitive radio users, for this purpose several spectrum sensing techniques are used. Spectrum sensing is one of the features of cognitive radio which tells us the availability of vacant bands (also called spectrum holes). In this survey, we analyze the non-cooperative, cooperative and interference based spectrum sensing techniques in cognitive radio. Also in the last, an introduction of some miscellaneous techniques has been given.

Keywords: Cognitive Radio (CR), spectrum sensing, Primary User (PU), fusion center, multi-taper spectrum estimation, Power Spectral Density (PSD).

References:
7. Z. Tian and G. B. Giannakis, “Compressed sensing for wideband cognitive radios”.

Authors: Milad Ghanbari, Abozar Godarzi Mehr, Hamid Nehzat

Paper Title: Introducing an Intelligent Transportation System Decision Support Model for the Highways in Iran Based on Fuzzy Logic

Abstract: The significance of inner and inter-city highways in terms of security, environmental pollution, and the capacity and density of the lanes has led to implementation of intelligent transportation infrastructure. The use of Intelligent Transportation Systems (ITS) economizes on costs and time. ITS enjoying high technology in information processing, communications, electronic control establish a proper and safe relationship between man, vehicles, and roads. This paper aimed to introduce a Decision Support System (DSS) in order to select the kind of intelligent transportation system for the highways in Iran. The research taking advantage of the ideas of some experts in the field of traffic and transportation performed fuzzy logic (FL) model in MATLAB software. The validity of the model was studied and confirmed in a case study of two highways.

Keywords: fuzzy logic, traffic engineering, intelligent transportation system, highway capacity, decision support system.

References:
3. Daldal, V. V., & Kheirzargar, R. V. FPGA-Based Intelligent Traffic Light Controller System Design.
operations research. Transportation Research Part C: Emerging Technologies, 17(6), 541-557.

**Authors:**
Uwa C. U, Nwafor J. C

**Paper Title:**
Relevance of Science and Technology on Environmental Commons: The Nigerian Experience

**Abstract:**
A journey through Nigeria, either by road, air, or rail shows a scintillating environment fully endowed with abundant resources, from a rich ecosystem through rich mangrove and rain forests to plateau, mountain vegetation interspersed with rivers, lakes in different climatic regions and in different stages of utilization and management. All these influence man’s existence but the extent of their influence on him depends on his capabilities to transform the applicable environment. Man applies science and technology in his quest to satisfy his day to day needs. Man will necessarily succumb to the dictates of environmental fallouts, if man is ill-equipped. With the necessary skills and knowledge and right application of the tools. It is on this premise that this study examines man and his physical environment, his application of science and technology to transform this environment to meet his immediate needs, the impact on it’s environment and it’s influence on man setting useful environmental laws and strategies for the way forward are then discussed. This study also deals with the laws, which helps to manage the environment for better wage and improve the living condition of man and nature via the waste management methods.

**Keywords:**
scintillating environment fully endowed utilization and management, laws and strategies.

**References:**
7. FEPA (1998): Guidelines and Standards for Environmental Pollution Control in Nigeria.

**Authors:**
Uwa Clementina Ukamaka, Nwafor J. C

**Paper Title:**
Climate Change Effects on Environmental Flora in the Nigerian Terrain: Health Implications on Mankind

**Abstract:**
Environmental conditions play a key role in defining the function and distribution of flora, in combination with other factors. Changes in long term environmental conditions that can be collectively coined climate change are known to have had enormous impacts on flora diversity pattern in the past and are seen as having significant current impacts. Researchers predict that climate change will remain one of the biodiversity patterns in the future. Adopting the survey method of research, this study investigates the importance of Juglans regia (walnuts) commonly known as walnut, in the areas of food and medicine in Nigeria. Some factors that are responsible for biodiversity depletion in environmental flora forms a major focus of this work. The concept of ecosystem or biosphere as a circle of life receives highlight. This work also details the purposes, significance, educational implication as well as policy implication of the concept of biodiversity loss.
Keywords: Climate change, environmental flora, biodiversity, ecosystem and Juglans regia

References:


Authors: Abdullah M. Alnajim

Paper Title: An Automated Analyzer for Users' Anti-Phishing Behaviour within a LAN

Abstract: Phishing is a security attack that seeks to trick people into revealing sensitive information about themselves and their Internet accounts. This paper proposes a novel anti-phishing approach that is deployed within a Local Area Network (LAN). The approach is a model that automatically perform ongoing analysis for users behaviours against phishing attacks and then based on the results it decides whether to train them or not against phishing. The aim is to enhance the phishing countermeasures applied on a LAN by making users aware of phishing attacks. A prototype proof of concept implementation is presented in this paper in order to test the approach’s applicability. The prototype of the new model shows that the approach model runs and performs the concept.

Keywords: Modeling, Analyzer, Blacklists, LAN, e-Commerce Security, Network, Proxy, Online Banking Security, Phishing, Pharming.

References:


Authors: Adhvik Shetty, Subham Chatterjee, Parimala R

Paper Title: Predicting Behaviors of Stock Market

Abstract: Prices of stock depend on a variety of factors. Predicting and building a model is a daunting task to any analyst. To predict the behavior of stock market, one goes through the company news, economic and political news and global sentiments. Considering the large number of news articles, there are some which can be missed out. Also it is impossible to focus on each and every news article as soon as it is published on the internet. In this paper, we analyze the sentiment generated by news articles and correlate the sentiment with the actual change in stock market prices. This gives a deeper insight into the correlation and tells us how much news articles influence the stock market. After extensive research we have decided to use a hybrid technique involving machine learning and natural language processing concepts. We have used n-gram as the feature creation, chi square as the feature selection and support vector machines as the classification technique. Improving the accuracy of predicting stock market trends, we hope to aid investors in better decision making based on real time sentiment of news articles.

Keywords: PRICES, CLASSIFICATION, ARTICLES, NEWS, POLITICAL

References:
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Authors: Ghazy Al- Hamed

Paper Title: Effect of Turnover on Jordanian Health Care Organizations

Abstract: Productivity is very important issue for any Health Care organization. There are several factors on which productivity of an organization mostly depends upon. Employee’s turnover is one of them which is considered to be one of the challenging issues in business nowadays. The impact of turnover has received considerable attention by senior management, human resources professionals and industrial psychologists. It has proven to be one of the most costly and seemingly intractable human resource challenges confronting by several organizations globally. The purpose of this research is therefore, to find out the actual reasons behind turnover and its damaging effects on the performance of different Jordanian Health Care Organizations. The objectives of the study is to ascertain the cause of Employees turnover, To determine the effect of employee turnover. To measure the satisfaction level of employees in the health organizations, and finally to build model to reduce turnover in health organizations. This study focused on the effect of employee turnover on Health Care Organizations with reference to the Jordan Health Care organizations (JHCOS). High employee turnover rates affect efforts to attain organizational objectives. In addition, when the Health Care Organizations loses a critical employee, the effects on innovation, consistency in providing service to patients and timely delivery of services to patients may be negatively affected. The research design used in this study was the quantitative approach, which allowed the researcher to use structured questionnaires in collecting data. The simple random sampling technique was used to select four hundred respondents from all levels of management in the Jordan Health Care organizations. The total number of population that the questionnaires were administered was four hundred (400), of which three hundred and seventy four (374) was retrieved shaped, (93%) of total population. Analytical statistics was used to analyze and test hypothesis (SPSS) was used for that. The study found positive turnover and negative turnover effect the performance of Jordanian Health Care Organizations, The study show also that Gender and Age not affect the Health Care Organizations Turnover causes, but Educational background, Status of respondents, and Work experience have an effect on Health Care Organizations Turnover causes. The study illustrate that adopted mode suggested effect on reducing turnover in Jordanian Health Care
With the increasing demand of energy and the diminution of the fossil fuels, with increase in pollution level and depletion of the ozone layer the demand for the natural and renewable sources of energy is the need of the hour and this has been the point of discussion all over the world with many organizations working for the utilization of these resources and its promotion and United Nations allocating huge amount of funds for its promotion we have also made an effort to contribute a bit in the same direction. It is a known fact that the most unutilized source of energy is solar energy. This paper deals with a microcontroller based solar panel tracking system. Solar tracking enables more energy to be generated because the solar panel is always able to maintain a perpendicular profile to the sun’s rays. Development of solar panel tracking systems has been ongoing for several years now. As the sun moves across the sky during the day, it is advantageous to have the solar panels track the location of the sun, such that the panels are always perpendicular to the solar energy radiated by the sun. A solar energy tracker is a device used for orienting a solar photovoltaic panel or lens towards the sun. Hence the sun tracking system can collect more energy.

**Keywords:** Solar system, solar panel, microcontroller AT89S52, LCD HITACHI 44780, L293D MOTOR DRIVER CIRCUIT.
References: