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**Authors:** G. Vijaya Lakshmi, C. Shoba Bindhu

**Paper Title:** A Queuing Model To Improve Quality of Service by Reducing Waiting Time in Cloud Computing

**Abstract:** Cloud computing is an emerging technology to provide cost effective and to deliver the business applications, services in an adaptable way. In cloud computing, multi resources such as processing, bandwidth and storage, need to be allocated simultaneously to multiple users. The When cloud computing users(CCU’S) requests for the service to the cloud computing service providers (CCSP) at the same time but while at a moment, if cloud computing server is busy CCU’s needs to enter into the waiting line until CCSP completes its service to the previous CCU . So this may leads to bottleneck in the network. Therefore cloud computing users neither utilize the resources nor waits in the queue. Cloud Computing service providers use multiple servers to reduce the waiting time .Therefore, it is necessary to consider a measure for congestion control in cloud computing environment. This paper proposes a \((M/M/C)\) (\(\infty/FIFO\)) Queuing model which is applied at multiple servers inorder to reduce waiting time , queue length also improving the network performance and QOS effectively in cloud computing environment.

**Keywords:** Cloud Computing, waiting time, Queuing Theory, QOS.

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**Paper Title:** Detecting the Age of a Person Through Web Browsing Patterns: A Review

**Abstract:** As the use of internet is growing day by day, the basic attributes of the user such as his age, his location, his preferences are of a great value to various business corporations. We are aware of the fact that there is some connection between the browsing behavior and the basic characteristics of the user. In this paper we have made an effort to summarize the various aspects related to detecting the age of the person through his browsing patterns.

**Keywords:** Age Prediction, Back-Propagation Neural Networks, Connectionism and neural nets, Concept learning.

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12. Reihanah Tamimi, Prof. Dr. Mohammad Ebrahim
Abstract: Authentication of a person is to ascertain his/her identity is an important problem in the society. Among various physiological traits (biometrics), ear has gained much popularity in recent years as it has been formed to be the reliable biometrics for human recognition. Ear recognition consists of the two important steps:-

I. Ear Detection
II. Ear Recognition

Ear Detection causes out the segmentation of the ear from the profile face. In this project we have decided to work on an available database and implement the neural network for the classification of the person from the specific image.

Keywords: Ear recognition, SURF matching, Neural Networks, Concept Learning.

References:

Abstract: In this paper, a new explicit pulse triggered flip-flop design with conditional pulse enhancement scheme is implemented and simulated in GENERIC-TDK 130-nm technology. This explicit pulse triggered flip-flop consist of a pulse generator and a true signal feed through scheme. The pulse generator is built with two CMOS inverters along with transmission gate logic which reduces the complexity of the circuit. The Pulse generation logic used in the explicit mode by a single pulse generator is shared for many number of flip flop at a time result in reduction of power not only this overall transistor count and delay can also been reduced. The transistor count has been reduced from 24 transistors to 16 transistors and power dissipated is 21.2133u watts. A reduction of power not only this overall transistor count and delay can also been reduced. The transistor count has been reduced from 24 transistors to 16 transistors and power dissipated is 21.2133u watts. A

Keywords: flipflop , to reduce no:of transistor , delay, power

References:
8. Low-Power Pulse-Triggered Flip-Flop Design Based on a Signal Feed-Through Scheme IEEE transactions on very large scale integration (VLSI) systems, vol. 22, no. 1, January 2014

Abstract: In this paper, a novel algorithm of programmable linear phase Equiripple finite impulse response (PFIR) filter is developed and improved. The proposed algorithm is incorporated with Remez algorithm to calculate the minimum filter order and Chebyshev algorithm to minimize the error by optimize the filter order. A new
algorithm and technique has been used to reduce the ripple in the pass-band filter response by insert different weights used in the different band. Additionally, the weights at the pass-band region are set to 30 times more than the stop-band weights to improve the adjacent band rejection and blocker response. Results show an development of passband ripple with improvement in the adjacent band rejection of 18% and 11% in blocker requirements more than conventional filter. These results confirm the validity of the proposed algorithms and the techniques used are promising to support the new generation requirements of wireless communication system.

Keywords: Linear phase, Equiripple, FIR, Chebyshev, Remez

References:

Authors: Nisha Sharma, P. N. Barwal

Paper Title: Electronic Project Proposal Management System for Research Projects Based on Integrated Framework of Spring and Hibernate

Abstract: A lightweight e-Project proposal Management system based on Open sources spring and Hibernate has been designed and developed in this paper. The system is developed to overcome the lengthy and time consuming process of obtaining a research project proposal, getting them scrutinized, deciding on the reviewers, obtaining progress reports and required certificates, monitoring etc. Automating these processes using the web application will streamline all these activities. The Object Relation mapping of hibernate and the Inversion of Control management, Model-View-Controller design pattern of spring have been used in the architecture. Spring Provide best code reuse along with legible code structure. ORM characteristic of hibernate make it easy to implement the transplant and manipulation of databases. The developed system is a multitier system including presentation layer, Business layer, data persistence layer and database layer which can separate presentation logic from business logic and improves reusability, reliability, maintainability of the system along with low coupling.

Keywords: Spring, Hibernate, Object Relation Mapping, Multitier System, MVC Architecture, and Inversion of Control.

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Authors: Absalom H. V. Lamka, Sylvester Munguti Masu, Githae Wanyona, Stephen Dianga, Abednego Oswald Gwaya

Paper Title: Factors Influencing Effective Productivity on Construction Sites in Nairobi County

Abstract: The construction industry has been cited to have a multiplier effect in the performance of any economy. It is necessary to make the industry more efficient and effective in terms of better utilization of resources. Part of the most important resources include labor, materials and money. The lack of data on labor productivity in Kenya has made planning and estimation of activities on construction sites unpredictable. This paper is based on a study of labor productivity in Nairobi with the aim of providing up to date data on what can assist building consultants, contractors and developers in the planning and management of construction processes. The prioritization of the factors which affect productivity in labor intensive construction will enable the project team to leverage the limited resources at their disposal to improve the onsite labor management, in order to improve labor productivity efficiently. The research design used in this study was the survey methodology where project managers, contractors and developers were engaged on their experiences in Labor productivity in the construction industry. During the study, the participants were asked to rank and assess the factors that affect productivity on labor intensive construction The paper has further compared its findings on labor outputs for selected operations (e.g. masonry and painting) with theoretical propositions from previous studies (Wachira,1999) and the practices in Kenya. The data obtained from the field was quantitatively analyzed using Statistical Package for Social Sciences (SPSS) and Microsoft Excel software. The study established that delivery of materials, adequacy of supervision and motivation of workers, are the most important factors affecting labor productivity. These factors can be improved through training in skills like planning, scheduling and motivation of workers. The results of this research can be used to excite academic research in this area. Furthermore, the findings are useful towards the necessary training for the construction industry to be more efficient and effective in Kenya.
The construction industry is a crucial sector both for developed and developing economies. It contributes 10% towards GDP for developed economies and more than 4% for developing economies. The industry has often faced many challenges in form of cost and time overruns and quality issues. Project management was introduced as a solution to the perennial problems of cost, time and quality in execution of construction projects. But the much touted benefits are not always achieved leaving clients with a lot of disappointments. It can be argued that the traditional project management variables have been inadequate in the assessment and control of construction projects. This paper set out to develop the most appropriate project management variables for Kenya to enable achieve an efficient and effective construction industry. The purpose of this paper is to develop a project monitoring model for construction projects to fulfill two main objectives: to provide a project success index for every finished project in order to compare them with each other and to establish a benchmark for future improvement in success of construction project execution. The methodology adopted in this paper was, first, to undertake a literature review on existing methodologies. Then a research instrument in form of a questionnaire was developed and a survey approach was used. Based on a sample size of 580 members with a response rate of 344 members and or 59.4%, descriptive statistics and principal component analysis were employed for processing data to come up with project success criteria. The model’s output is a project success index which is calculated based on seven project success criteria. The findings can be of valuable use both for academia in form of more research discourse in the field of project management and for industry participants in form of model application.


Authors: Abednego Oswald Gwaya, Sylvester Munguti Masu, Walter Odhimbo Oyaya

Paper Title: The Role of Servant Leadership in Project Management in Kenya

Abstract: Leadership is believed to be important to project success despite a limited number of studies on the topic. Servant leadership, for example, has never been studied in the context of the project environment or project success. Servant leadership does, however, include a number of skills that have been found to be important to the management of projects such as: Listening, empathy, healing, awareness, persuasion, conceptualization, foresight, stewardship, commitment to the growth of people and community building. For that reason, the research herein will contribute new knowledge to the study of leadership in project management. The study investigated the relationship between servant leadership and project outcomes. The project management profession is undergoing tremendous growth worldwide as officials of corporations, governments, academia and other organizations recognize the value of common approaches and educated employees for the execution of projects (Ives, 2005). Ives (2005) acknowledged that implementation of strategic change has been a business problem for decades and still is a problem. The discipline of project management is a key strategy to manage change in organizations (Kloppenborg & Opfer, 1999). These management techniques may be a partial solution to the problem of implementing of strategic change. Construction projects globally have often failed to achieve expected results. In Kenya, for instance we have been experiencing cost and time overruns on projects which are further compounded with quality issues.

This even when professors are involved in projects execution (Muchungu, 2012). Even when teams are disassembled and reassembled with a different team leader and or project manager results have varied. Since the latter years of the 1980s, the links between the implementation of change and project management has been strengthened (Ives, 2005). Organizational systems are open, complex, and political, creating a greater level of uncertainty and contributing to an unstable and changing project environment (Ives, 2005; Thomas & Bendoly, 2009). The high level of uncertainty and change challenges traditional systematic approaches to project management. The emphasis of the traditional approach was more on project processes, tools and techniques and less on the leadership of projects. This study determines to what extent servant leadership can contribute to project success. The outcome of this study indicates that servant- leadership is present in a majority of successful projects.

The results from this study could benefit project management practitioners by providing specific constructs that can be applied towards improving the current approaches to project management leadership. The study will add to the body of knowledge on leadership in project management.

Keywords: Servant leadership, Project Management, Project Success, Project Leaders, Project execution, Project Human Resources.

References:
In this paper, we present an approach called Self-Organizing Map and its application in recommendation systems. Self-Organizing map is a popular unsupervised artificial neural network algorithm. We discuss the SOM algorithm in detail and evaluate its performance. The SOM technique has various advantages over general mining algorithms and hence we choose to discuss this technique. Traditionally, with recommendation systems, collaborative filtering or hybrid systems are used. However, if these techniques are used with artificial neural networks like SOM, the system becomes more efficient.
Abstract: Network management is a hard task. G-NETADMIN – A Network Management System (NMS) is a set of software and hardware tools for the monitoring and management of networks. Technological development in the mobile communication area has been growing substantially in recent years. Currently, two technologies have appeared as big players in the wireless arena. One is the result of the development and migration of LAN technologies, standardized by the IEEE as 802.11 or wireless fidelity (Wi-Fi). The other is General Packet Radio System. This paper, the G-NETADMIN, envisages to remotely control and monitor the network terminals that are connected through a LAN while the administrator is far away from the network. This also increases the scope of the administrator, by accessing the network from his mobile phone and also helps him to control the network using the same.

Keywords: Remote network administration, Authentication, Net view, Process management, Remote handling, Message sending, AT commands, GSM modem

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6. GSM SYSTEM SURVEY, Student text, EN/LZT 1233321, R5B revised upgrade edition. p 192.

Abstract: Normal support vector machine (SVM) algorithms are not suitable for classification of large data sets because of high training complexity. In this paper, we introduce a method based on edge recognition technique to find low-value data, where to keep input data distribution, we use clustering algorithm like k-means to compute clusters centers. Data is selected through edge recognition algorithm and cluster centers, are used to build a training data set. Reconstructed data set with small size, increase the speed of training process procedure without decreasing classification precision. But, as we used k-means algorithm, it is required to initially specify the number of classes. We try to get a proper procedure by improving edge recognition algorithm to reduce data, also using hierarchical clustering algorithm and similarity percent to compute number of clusters instead of using k-means algorithm, and compare results of these two algorithms.

Keywords: Support vector machine, k-means, optimization, edge recognition, cluster, hierarchical, similarity percent.

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Designing Braille Copier Based on Image Processing Techniques

Abstract: Braille is a very important communication code for low vision and blind people. Recently, there has been an increasing trend to use computers for entering, editing and printing Braille documents using special purpose software and printers. Also, there is a large number of old Braille documents that have started to wear out and they need to be reproduced so that they can be preserved and copies made available to many people. Hence, the motivation of this research is the need to duplicate many of Braille documents automatically in a very easy manner (like traditional photocopying machine) to be preserved and copies made available to many people. Implications of this research include building a Braille Copier machine that produces copies of Braille documents in exact format regardless of the language used. In addition, this machine is able to work as two-in-one (Coping and Printing). The method used requires optical recognition and image processing techniques so that Braille papers can be copied in a similar way to copying ordinary printed text. The results obtained were excellent as we were able to copy Braille documents successfully for both single and double sided papers.

Keywords: Braille Image Segmentation, Braille Cells, Verso dots, Recto dots, Grid formation and Cell Detection

References:
**Paper Title:** Comparative Study of Parallel Odd Even Transposition and Rank Sort Algorithm

**Abstract:** In this paper, the execution behaviours of different parallel sorting algorithms like odd-even transposition sort and parallel rank sort have been invested with multithreading. Multithreading in JAVA programming language provides a mechanism where parallel algorithms are implemented by far. The performance of implemented algorithms is evaluated on the basis of execution time. It has been found that parallel odd even Transposition algorithm is giving better performance as compared with rank sort algorithm.

**Keywords:** Parallel sorting algorithms, performance analysis, Multithreading.

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**References**

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<thead>
<tr>
<th>Authors</th>
<th>Jaison John, C. Sathish Kumar</th>
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<tr>
<td><strong>Paper Title:</strong></td>
<td>A Comparative Study of Genetic Algorithm and Particle Swarm Optimization based Optimizations of PID Controller Parameters</td>
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<tr>
<td><strong>Abstract:</strong></td>
<td>Proportional-Integral-Derivative (PID) control is the most commonly used algorithm for industrial control. The process of computing and setting the optimal gains for P, I and D to get an ideal response from a control system, called as tuning, is a very difficult task. In this paper, two types of nature inspired algorithms genetic algorithm (GA) and particle swarm optimization (PSO) techniques are used for optimizing the PID parameters. These techniques have been observed to be capable of locating high performance areas in complex domains without experiencing the difficulties associated with high dimensionality or false optima. Hard disk drive read/write head servo control system and DC motor control are used in the simulation study for depicting the efficacy of the proposed methods. PID controllers optimized using GA and PSO are observed to provide better time domain performance in comparison with conventionally used tuning method of ZieglerNichols.</td>
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<tr>
<td><strong>Keywords:</strong></td>
<td>Genetic Algorithm, Particle Swarm Optimization, Tuning of PID Controller, Ziegler-Nichols.</td>
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**References**


**Authors:** Jayshree Ghorpade, Shamika Mukane, Devika Patil, Dhanashree Poal, Ritesh Prasad

**Paper Title:** Novel Method for Graphical Passwords using CAPTCHA

**Abstract:** Cyber security is an important issue to tackle. Various user authentication methods are used for this purpose. It helps to avoid misuse or illegal use of highly sensitive data. Text and graphical passwords are mainly used for authentication purpose. But due to various flaws, they are not reliable for data security. Text passwords are insecure for reasons and graphical are more secured in comparison but are vulnerable to shoulder surfing attacks. Hence by using graphical password system and CAPTCHA technology a new security primitive is proposed. We call it as CAPTCHA as gRaphical Password (CaRP). CaRP is a combination of both a CAPTCHA and a graphical password scheme. In this paper we conduct a comprehensive survey of existing CaRP techniques namely ClickText, ClickAnimal and AnimalGrid. We discuss the strengths and limitations of each method and point out research direction in this area. We also try to answer “Are CaRP as secured as graphical passwords and text based passwords?” and “Is CaRP protective to relay attack?”

**Keywords:** CAPTCHA, CaRP, passwords, graphical, techniques.

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Authors: M. A. Ramadan, Talaat S. EL-Danaf, Hanem Galal

Paper Title: Chebyshev-Sinc Collocation Schemes for Solving a Class of Convection Diffusion Equations

Abstract: This paper is concerned with obtaining numerical solutions for a class of convection-diffusion equations (CDEs) with variable coefficients. Our approaches are based on collocation methods. These approaches implementing all four kinds of shifted Chebyshev polynomials in combination with Sinc functions to introduce an approximate solution for CDEs. This approximate solution can be expressed as a finite double summation from the product of Sinc functions and shifted Chebyshev polynomials. The time derivatives for all four kinds of shifted Chebyshev polynomials are expressed here as linear combinations from Chebyshev polynomials themselves. New formulas for the integer derivatives with respect to time \( t \) and space \( x \), respectively of the unknown function with two variables is expressed in terms of the product of Sinc functions and shifted Chebyshev polynomials themselves also. Special attention is given to the numerical results obtained by the proposed approaches in order to demonstrate the accuracy and efficiency of the newly proposed approaches.

Keywords: Chebyshev polynomials; Sinc functions - accuracy and efficiency - shifted Chebyshev polynomials

References:
boards, college authorities, special schools and colleges in teaching students with Autism Spectrum disorders (ASD). Autism Spectrum Disorders (ASD) are complex neurological disorders that have a lifelong effect on the event of assorted talents and skills. The foremost vital goal of the paper is to review the autism problem, to detect the levels of autism with the help of data mining classification algorithms. The data mining has been typically accepted as a decision making process to facilitate higher resource utilization in terms of autism students’ performance.

Keywords: Autism Spectrum Disorders, data mining

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Authors: M. M. Mohie El-Din, M. S. Koth , W. S. Emam

Paper Title: Bayesian Estimates based on Combined Hybrid Censored Data from the Modified Weibull Lifetime Model

Abstract: In this article, we derive Bayesian stimations of three parameters and some survival time parameters e.g. reliability and hazard functions in the modified Weibull distribution based on combined hybrid censored data. Finally, a real life data set and simulation data are used to illustrate the discussed methodology.

Keywords: Bayesian estimation; modified Weibull distribution; order statistics; combined hybrid censored data.

References:

Authors: A. A. Shaikh, P. S. Shinde, S. R. Singh, S. Chandra, R. A. Khan

Paper Title: A Review on Virtual Dressing Room for E-Shopping using Augmented Reality
Abstract: Augmented Reality combined with new algorithms and social media technologies have started a revolutionary shift away from the classic desktop paradigm and into the direction of intuitive, “natural interaction” where people interface with the technological world through hand gestures, speech and body language. The virtual dressing room will make use of Human Computer Interface and Augmented Reality and it will be used for online shopping. This will facilitate the shopping experience by letting customers to try-on apparel and/or mix and match accessories without being physically present in the retail shop. These platforms are not only powerful decision tools for the on-line shopper, but also contribute to the fun factor of in-store shopping. The system gets the data of custom body sizes to construct virtual fitting model through photos already uploaded. The model then tries on different costumes and the system shows the fitting effect. Augmented Reality Virtual Dressing room works by superimposing the model or picture of a garment or accessory within the live video feed of the customer. The superimposed model or picture of the garment or accessory will then track the movements of the customer so it appears as if the customer is wearing the virtual item in the video-view. In addition, omnipresent social networking features allow sending photos or videos of the shopper wearing the apparel for quick feedback. The proposed project can achieve real-time, high-fidelity cloth simulation and provide encouraging online virtual fitting experiences.

Keywords: Augmented Reality, Edge detection, Gesture recognition, Human-Computer Interaction, Information Kiosk, Motion tracking.

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Authors: L. Berriche, N. Al-Ghamdi, A. Al-Qahtani, A. Al-Garni, M. Al-Azmi

Paper Title: MIMO Systems Performance Simulator

Abstract: Multi Input Multi Output (MIMO) has emerged as a hot topic in wireless communications. This is due to possible dramatic increase in reliability and capacity as compared to single antenna solution. In this project we are developing a MIMO System Performance Simulation (MSPS) tool by using MATLAB for making more realistic studies of MIMO systems. By using this simulator one can see the Bit Error Rate (BER) performance of the system and Minimum Mean Square Error of LMMSE estimator according to given Pilot to Data Power Ratio (PDPR), pilot schemes and based on two types of channel model correlated and non-correlated.

Keywords: MIMO, Channel estimation, Symbol detection, simulator.

References:

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