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1.

Authors: S. Anita, M. Banu, M. N. Nachappa

Paper Title: A Prominent Solution to Test Academic and Scientific Integrity Using LSA

Abstract: "Taking over the ideas, methods, or written words of another, without acknowledgment and with the intention that they be taken as the work of the deceiver" is a quotation defined by American Association of University Professors in 1989 for Plagiarism. As the above quotation states, plagiarism has been traditionally defined as the taking of words, images, ideas, etc. from an author and presenting them as one's own. It is often associated with phrases, such as capturing of words, ideas and literary theft. Plagiarism can manifest itself in a variety of ways and it is not just confined to student papers or published articles or books. For example, consider a scientist, who makes a presentation at a conference and discusses at length an idea or concept that had already been proposed by someone else and that is not considered common knowledge. During his presentation, he fails to fully acknowledge the specific source of the idea and, consequently, misleads the audience into thinking that he was the originator of that idea. This, too, may constitute an instance of plagiarism. A small number of students, about 10%, admit that they started plagiarizing because of the Internet [3]. This research studies about the concept of plagiarism with respect to internet to find the originality of a student or an author, who made a publication. It also proposes an idiosyncratic tool for identifying plagiarism of a key document by comparing the similarity of the key document with the documents in the internet pool and the results will be provided in terms of similarity percentage. This tool will be used to decide the integrity of a student or an author, who published an article by scanning through the documents available in the web.

Keywords: Plagiarism, Idea Plagiarism, Self Plagiarism, Academic and Scientific Integrity, Latent Semantic Analysis.

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2.

Authors: Sajid Mulla, Jasar Rayeen, Rahul Muluk, Naseemul Gani Bhat

Paper Title: Library Automation System for Visually Handicapped Person

Abstract: A facility to pick up desired book by Visually Handicapped Person by touching letters in Braille, they have to understand information about the book .For each book same process will be repeated so the process is somewhat time consuming and tedious. To reduce this complex procedure we are introducing the system by which visually handicapped person will get information about that book in audio format. For using this system, student have to keep electronic kit with him during searching of book in library. When he goes to the book, information in audio format will be played which contains details as name & author of the book & breif information about the book . The project will support the visually handicapped person to select correct book.

Keywords: Rfid Tags, Rfid Reader.

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Authors: Kevin George Chittu, S. Berclin Jeyaprabha

Paper Title: Design and Simulation of Fuel Cell Energy System to Power RO Desalination Plant

Abstract: Desalination is the only solution to this crisis as it provides clean drinking water from largely available sea water. Also it is necessary to drive this desalination plant by a non-conventional source in order to prevent the CO2 emission that affects the environment. Various renewable energy sources are available for this purpose such as solar energy, wind energy, geothermal energy, bio gas etc. By using proper channel to trap these energies we can power the desalination easily and effectively. Some of the sources like wind turbine, solar thermal systems, photovoltaic (pv), biogas plant, fuel cell are the widely used for desalination. Combining these sources with some of the desalination techniques such as Multi-stage flash evaporation (MSF), Multi effect boiling (MEB), Vapor compression (VC) and Reverse Osmosis (RO) will give optimum results. In this proposed system RO method of desalination and polymer electrolyte membrane fuel cell as the power source is used.

Keywords: Fuel Cell, RO System, Desalination, Renewable Energy.

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3. **9-14**

Authors:	**Gurdeep Kaur, Gaganpreet Kaur, Sushil Garg**
Paper Title:	**Natural Languauge Fuzzy Set Based CBIR**

Abstract: Not much is understood in terms of semantics of natural language applicable in CBIR. There are many linguistic systems, often based on set theory and logic, attempting to grasp (at least some phenomena and circumstances) of the natural language based on which a image might understood or interpreted and thereby be annotated with , and it must useful in such way that it reduces the cost of accessing the relevant information and remains refresh all together with open ended structure to incorporate the validity of ground truths. In this research work we have tried to come all these issues and results shows that our method used in building natural language sets for images in question is highly relevant thus enriching results to provide high recall and precision value of range of 67% .

Keywords: Fuzzydataset, linguistic, raw symbolism, semantic.

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4. **15-17**

Authors:	**Amit Saurabh, S. Durga, S. Jebapriya**

5.

Paper Title: **An Evaluation Approach of Trust Value and User Satisfaction Value Using Fuzzy Logic for Cloud Service Provider**

Abstract: Cloud computing has recently come forward as a new and well-liked paradigm for organizing, managing and delivering a variety of services through a shared infrastructure and used by many individuals and organization globally. Demand of cloud service providers (CSPs) is increasing day by day due to it reduces capital expenditure as well as operational expenditure. More number of CSPs providing more well-versed choice for customers to choose. This paper portrays issues for having trusted cloud such as trust assessment and uncertainty in customer satisfaction assessment, and also developed a model, which consist trust assessment model and user satisfaction assessment model together based on fuzzy logic. This assessment helps users to make a well-versed choice towards selecting the appropriate CSPs as per their requirement, and also helps managers to perform gap analysis between existing level and the desired one.

Keywords: Cloud Service Provider, Cloud Analyst, Customer Satisfaction, Fuzzy Logic, Trust.

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6.

Authors: **Kalyan Chatterjee, Nilotpal Mrinal, Mandavi, Prasannjit, Amit Sur**

Paper Title: **Adaptive Filtering and Video Compression Using Neural Networks**

Abstract: Video Compression is concerned with reducing the amount of data required to reproduce a video. Adaptive Filtering and Video compression is necessary because video is often disturbed by useless noise at the time of compression and video requires more space to store. In this paper, we present an Adaptive Filtering technique for the removal of useless noise from video. After cancelling the unwanted noise, we get a filtered video. After that we take the filtered video as input to the neural network. Finally, we have used back propagation algorithm to compress the video.

Keywords: Adaptive Filtering, MPEG standards, Neural Network, Singularity maps.

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Authors:	**N. Susheela, P. Satish Kumar, B. Sirisha**
Paper Title:	**Hybrid Topologies of Multilevel Converter for Current Waveform Improvement**

Abstract: This paper presents different multilevel converter topologies that includes NPC, NPC-CHB, FC, FC-CHB converter. The operating principle of each topology and a review of the most relevant modulation methods are discussed. Multilevel converters offer advantages in terms of the output waveform quality due to the increased number of levels used in the output voltage modulation. This advantage is particularly true for cascade H-bridge (CHB) converters that can be built to produce a large number of levels owing to their modular structure. Nevertheless, this advantage comes at the cost of multiple dc links supplied by independent rectifiers through the use of a multi-output transformer for inverters. This front end complicates the implementation of converters that have a high number of levels. An alternative method of using lower voltage cells with floating dc links to compensate only for the voltage distortion of a neutral-point-clamped and flying capacitor converter is considered for active rectifier applications. The analogy between the floating HBs and the series active filters is used to develop a strategy for the harmonic compensation of the NPC output voltage and the control of the floating dc-link voltages. This simplifies the current control scheme and increases its bandwidth. The proposed topologies have been verified using MATLAB/Simulink. The results show the improvement in the output current waveforms.

Keywords: Current Control, dc link voltage, High-Power applications, Multilevel Converter.

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Authors: **Srinivas Naik, Rajesh Adepu**

Paper Title: **Security for SOHO in IPv6 Networks**

Abstract: Small Office and Home Office (SOHO) distinguishes from large organizations where there exists minimal security or protection mechanisms. This paper investigates and presents different threats that a network can be exposed to and the common protection techniques that can be applied, with a focus on the network perimeter – specifically the router/firewall between the local area network and the Internet. All Internet connected devices and networks are exposed to and affected by security threats to some degree, hence security is important in almost every type of network. With the constant growth of the Internet the 32-bit addressing scheme ipv4 is proving to be inadequate, and therefore the transition to the 128-bit addressing scheme ipv6 is becoming critical. With ipv6 comes new security threats (while still old threats remain) that requires an understanding of perimeter security. In this paper we secure a home router and describe these steps to enable home and small business owners to secure their IPv6 network.

Keywords: Security, IPv6 Attacks, SOHO threats, Intrusion detection system, Firewall.

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Authors: **Prajakta R. Thakare, Saba Anjum J. Patel, Tanaji. D. Khadtare**

Paper Title: **Efficient Image Retrieval Mechanisms using Color Feature**

Abstract: Many areas of commerce, government, academia, and hospitals create large collections of digital images . Digital image databases open the way to content-based searching. One of the tool that is essential for electronic publishing is a powerful image retrieval system. Most commercial image retrieval systems associate keywords or text with each image and require the user to enter a keyword or textual description of the image. This text based approach is incompetent as some features are nearly impossible to describe with text. In an effort to overcome these problems and to improve image retrieval performance researchers are focusing on content based image retrieval (CBIR). In CBIR retrieval is accomplished by comparing image features directly rather than textual descriptions of image features. Features that are commonly used in CBIR include Color, Texture, Shape and Edges. These features are primitive image descriptors in content based image retrieval systems. Among these features, color feature is the most widely used features for image retrieval because color is the most intuitive feature and can be extracted from images conveniently. In this paper we survey some technical aspects of current content-based image retrieval systems using Color as a feature.

Keywords: CBIR, Color, Image Retrieval, Retrieval efficiency.

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10.

Authors: **V. Muthulakshmi, A. Mano Prarthana, A. Nithiya, M. Prabhavathy**

Paper Title: **Impurity Profiling Of Food Using Template Matching**

Abstract: Food is essential for nourishment and sustenance of life. The addition of impurities to food affects the composition and quality of food. The manual method is practical and fast, but lacks the reliability and objectivity required in competitive food industries. Machine vision using morphological features have been reported in numerous studies as an effective solution to detect impurities in food. In this paper we experimented detection of impurities in rice samples using template matching technique. Various image processing techniques have been studied and we've concluded that template matching is the best and efficient way to detect the impurities. Using area computation we've also identified the broken rice in samples.

Keywords: Machine vision, Edge Detection, Normalized Cross Correlation, Template Matching.

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