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Flexural Behavior of Polyvinyl Alcohol Fiber Reinforced Concrete

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Abstract

The usefulness of fiber reinforced concrete (FRC) in various civil engineering applications is indisputable. Fiber reinforced concrete has so far been successfully used in slabs on grade, shotcrete, architectural panels, precast products, offshore structures, structures in seismic regions, thin and thick repairs, crash barriers, footings, hydraulic structures and many other applications. This report presents a brief state-of-the-art report on flexural behavior of polyvinyl alcohol fiber reinforced concrete. Civil infrastructure around the world the problem is at the apparent lack of tensile strength in our concrete. This paper present data to support the argument that polyvinyl alcohol fiber reinforced concrete is an ideal material for achieving these goals. The research also discusses poly vinyl alcohol fiber reinforced concrete materials properties and mix design. The PVA fiber will be added to the conventional concrete 0%, 0.1%, 0.2%, 0.3% and 0.4% by its cement weight. The optimum level of PVA fiber was determined as 0.3 based on the compressive strength, split tensile strength and modulus of rupture. The beam was casted with size of 125X150X1800mm with 0.3% of PVA Fiber. Then the flexural behavior was studied and compared with conventional concrete.

Keywords — Polyvinyl alcohol fiber, Flexural Behavior

I. INTRODUCTION

Concrete is a mixture of Cement, Fine aggregate, Coarse aggregate and Water. In plain concrete and similar brittle materials, structural cracks [micro – cracks] developed even before loading, particularly due to drying shrinkage or other causes of volume change. The width of these initial cracks seldom exceeds a few microns, but their other two dimensions may be higher magnitude.

It has been recognized that the addition of small, closely spaced, and uniformly dispersed fibers

cement, mortar or concrete and discontinuous, discrete, uniformly dispersed fibers”.

Continuous meshes, woven fabric and long wires or rods are not considered to be discrete fibers. The following fibers are could be used as in concrete,

- Steel fibers.
- Polypropylene fibers,
- Nylon fibers.
- Asbestos fibers.
- Coir fibers.
- Glass fibers.
- Carbon fibers.

Fiber is a small piece of reinforcing material possessing certain characteristic properties. They can be circular or flat. The fiber is often described by a convenient parameter called “aspect ratio”. The aspect ratio of the fiber is the ratio of its length to its diameter. Typical aspect ratio value ranges from 30 to 150.

II. EXPERIMENTAL PROGRAMME

A. Materials

For this research work Ordinary Portland Cement 53 grade was used. Locally available fine and coarse aggregate was used with specific gravity of 2.75 and 2.8. The maximum size of coarse aggregate was 12.5mm. The Poly vinyl Alcohol fiber was obtained from Spinning King (India) Limited, Gujarat, India. With following Properties.

Table 1 Properties of Poly Vinyl Alcohol Fiber Reinforced Concrete

Test Item	Tested Value
Material	Poly Vinyl Alcohol
Density	1300 kg/m ³



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Flexural Behaviour of Potassium Based Geopolymer Concrete

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Abstract: The global usage of cement occupies the second position next to water. As the development of country and infrastructure, their materials needed get increased. Meanwhile for the development of the infrastructure concrete plays the major role. In concrete the major material or ingredient is ordinary Portland cement (OPC). OPC creates two major problems at the time of production; the emission of CO₂ due to calcination of limestone and the usage of extensive amount of energy. On the other hand, fly ash is the material which is emitted from the power plants at the time of electricity production which has similar and superior properties of cement. If fly ash is mixed with any kind of hydroxide and silicate it forms as the binder, which is termed as geopolymer. In this paper we used the Potassium Hydroxide and Potassium Silicate as the combination of the alkaline solution. The present paper presents the study of potassium based geopolymer concrete with paper sludge ash as partial replacement of fly ash for 0%, 5%, 10%, 15% and 20% in geopolymer concrete under various curing conditions such as Hot air Oven curing, Sun light curing and Ambient curing. The Flexural behavior of geopolymer concrete beams, flexural strength test, Load carrying capacity, ductility factor, crack pattern, beam deflection and moment curvature etc., for the geopolymer concrete produced from the Fly Ash and Paper Sludge Ash with Catalytic liquid system and aggregates under various curing conditions such as Hot air Oven curing, Sun light curing and Ambient curing.

Keywords: Geopolymer, Potassium Hydroxide, Potassium Silicate, Paper sludge ash.

1. INTRODUCTION

Geopolymer is an inorganic polymer. Geopolymers are material based on pure aluminosilicate source materials such as fly ash, GGBS, calcined clays such as metakaolin activated with an alkali hydroxide and silicate solution [1]. Geopolymerisation is an exothermic process involving dissolution - reorientation - solidification reactions. Geopolymers can be produced with various microstructures in relation to Si: Al ratio. A low of Si: Al ratio leads to

structures, railway sleepers, electric power poles, road bases, marine products and other products for infrastructure are possible uses of the geopolymer [2]. Besides these high-tech applications, special geopolymer concrete has been used for repairing runways or motorways because they set and harden quickly and develop the high compressive strength in four hours [3].

Low calcium fly ash based geopolymer concrete resembles in good compressive strength as well as resistance to sulphate attack [4]. Geopolymer concrete does not require any quantity of water for hydration process to held, yet requires only alkaline solution. The solution should reach the maximum of pH value so that the hydration process would be taken in proper way. It was found that geopolymer concrete strength depends upon the factors such as concentration of hydroxide, the silicate to hydroxide ratio, curing time, admixture, handling time and age of concrete.

II. EXPERIMENTAL PROGRAMME

A. Materials Used

Fly ash used for geopolymer concrete belongs to Class F (Low calcium based fly ash), which obtained from Mettur Thermal Power station with specific gravity of 1.90. Paper sludge ash was collected from SPB Paper Mill, Pallipalayam with specific gravity of 2.29 Fine aggregates were clean and naturally obtained for the river, with the specific gravity of 2.70. Coarse aggregate were locally obtained with the specific gravity of 2.74

TABLE 1 CHEMICAL COMPOSITION OF FLY ASH

Component	Fly ash
SiO ₂	56.5
Al ₂ O ₃	22.14

3.4.3 Number of research papers per teacher in the Journals notified on UGC website during the last five years (5) 2016-2017



Firefly optimized k means clustering for gene selection

Authors N. Magendiran

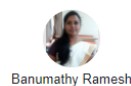
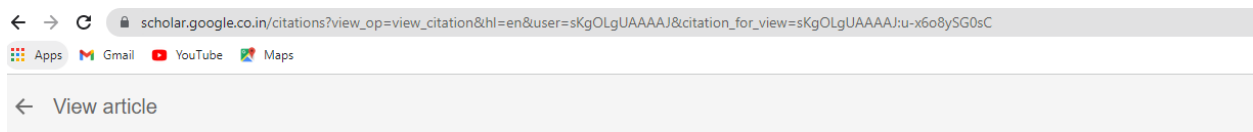
Publication date 2017

Journal Research Journal of Biotechnology

Issue Special Issue January (2017)

Pages 80-87

Description The fundamental purpose of microarray or gene appearance data scrutiny is to identify the coexpressed genes as well as bright patterns. It also plays a vital role in investigating bioinformatics. Microarray technology can concurrently produce large quantity of microarray gene expression data for various samples, which permits effective analysis and diagnosis of breast cancer. It is not essential to have all the genes in the data set for classification as well as for diagnosis. While diagnosing breast cancer only informative genes are retained through gene selection process while redundant, inappropriate as well as noisy genes are discarded. This work proposes the pillar algorithm with K means as well as Weighted K Means (WKM) clustering algorithm and Firefly Algorithm (FA) based K means clustering.



Bacterial Foraging Optimized Fuzzy C Means Clustering for efficient disease prediction

Authors D Banumathy, S Selvarajan

Publication date 2017

Journal Research Journal of Biotechnology

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Publisher Research Journal of Biotechnology

Description An early diagnosis of disease is preferred. K-means is a famous hard clustering algorithm that splits data objects into kclusters wherein the quantity of clusters wherein the quantity of clusters, k, is determined previously as per the application purpose. Fuzzy cmeans clustering is an efficient protocol, however, the arbitrary selection in center points makes the repetitive procedure forcing into local optimum solution with ease. Bacterial Foraging Optimization protocol (BFOA) on the basis of the behaviour of biologically inspired E-coli bacteria, used to find optimal solution. E-coli bacteria search for rich nutrients in the search space by using their energy per unit time. The common characteristic bacteria's are grouped together. The bacterium can communicate with each other by sending signals. In this work, Hybrid Bacterial Foraging Optimization protocol-Fuzzy C-Means Clustering (BFO-FCM) method is proposed.

MULTI VARIANT GENE SELECTION x +

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MULTI VARIANT GENE SELECTION APPROACH BASED HIGH DIMENSIONAL SUB SPACE CLUSTERING OF BREAST CANCER DATA SET FOR EFFICIENT CLASSIFICATION USING FUZZY RULE SETS AND MULTI GENE IMPACT MATRIX

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Original language: English

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ABSTRACT

The breast cancer is the most threatening factor of women's lifestyle and the reason of the disease has many factors, but still the gene factor has more influence in the generation of breast cancer where the early diagnosis and prevention is essential. There are many approaches has been discussed in the literature, but the identification and selection of a set of genes which influence the disease

Substantial Gene Selection in Dis x +

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Substantial Gene Selection in Disease Prediction based on Cluster Centre Initialization Algorithm

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Online published on 15 September, 2016.

Abstract

Microarrays are complete it possible concurrently to monitor the appearance profiles of thousands of genes below various tentative conditions. Identification of co-expressed genes and bright patterns is the principal goal in microarray or gene appearance data scrutiny and is a significant task in Bioinformatics investigation. In this paper, K-Means algorithm hybridized with Cluster Centre Initialization Algorithm (CCIA) is planned Gene Expression Data. The expected algorithm overcomes the problems of requiring the number of collections in the K-Means approaches. The method decides on a set of essential high-class genes from the dataset based on their correspondences which are computed using average association value the clusters which earn the higher average connection value is considered as significant groups, whose ordering accuracy will be equal or great when associating to the accuracy of the whole dataset. Finally, from the new results, it is long-established that the genes selected by the planned approaches are quite promising in classification and also are purely relevant to cancer.

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Finding Intensity of Disease by Fuzzy Learning Rules (FLR) based Intelligent Decisive Support System for Efficient Disease Prediction

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Online published on 15 September, 2016

Abstract

Experimental analysis is frequently done by doctor's expertise and involvement. But still, cases are testified of incorrect diagnosis and action. Patients are demanded to take some tests for examination. In many belongings, not all the tests contribute towards efficient analysis of a disease. Three classifiers similar Naive Bayes, Ordering by clustering and decision tree are used to calculate the analysis of patients with the same accuracy as acquired before the discount of some attributes. Fuzzy learning rules (FLR) are generally applied for finding the intensity of disease in data sets. Fuzzy learning rules better compared to other three methods. We propose a fuzzy learning algorithm to determine relationships between data resources based on their disease attributes, as well as to characterize knowledge through the connotation of disease covered by those properties. The algorithm addresses the significant problem of important a suitable number of clusters for suitably catching all the diseases of the knowledge domain. Using fuzzy rule-based classification system, the proposed system proves to improve the classification accuracy.

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HIGH DIMENSIONAL K^N-FAST CLUSTERING BASED INTELLIGENT DECISIVE SUPPORT SYSTEM FOR EFFICIENT DISEASE PREDICTION USING DATA MINING AND RULE SETS

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D. BANUMATHY¹ and S. SELVARAJAN²

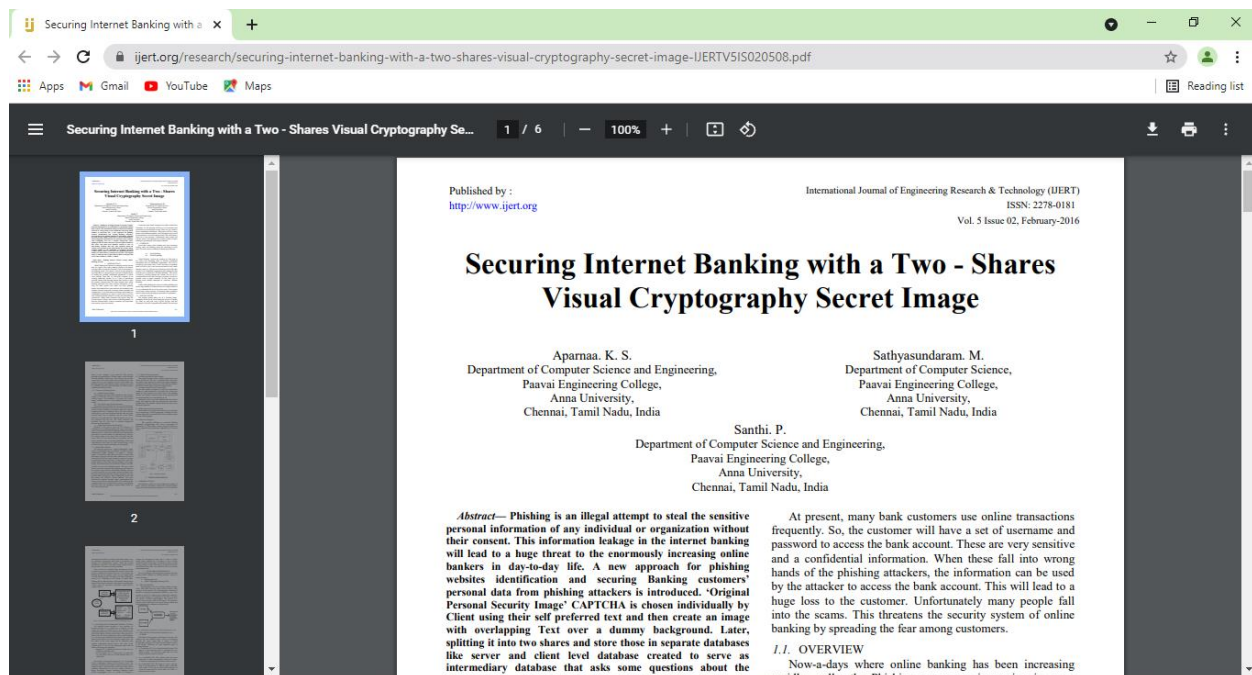
¹ Assistant Professor / CSE, Paavai Engineering College, Namakkal, Tamilnadu, India
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ABSTRACT

The methods of high-dimensional clustering have been applied for variety of problems and in case of decisive support systems, there are few approaches discussed earlier, but suffers with the problem of false indexing ratio with poor clustering accuracy and higher time complexity. To overcome the issue of poor clustering accuracy, a novel K^N Fast Clustering algorithm is discussed in this paper. The



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An Efficient Meta Scheduling based Virtual Consolidation for Resource Sharing in Green Cloud
 S. Lavanya Prabha and R. Dhivya

Abstract:
 In modern researchers, cloud parallel data processing has emerging resource that to be one of the problematic application for Infrastructure-as-a-Service (IaaS) clouds. Major Cloud processing companies include starting incorporate frameworks using VM models for parallel data processing in their resource portfolio creation to easy for a client to access these services and to set out their programs. The growing computing requires from multiple requests on the main server has lead to excessive power utilization. The waiting resource in the long-term sustainability of Cloud like infrastructures in provisions of energy cost but also from cloud environmental perspective. The trouble can be addressed to require with high energy consumption resource sharing infrastructures, but in the process of resources are dynamically switch to new infrastructure. Switching is not enough to cost efficient and also need time sharing green consuming. Cloud being consists of several virtual centers like VMs under the different administrative domain, make a problem more difficult. Thus, for the reduction in energy consumption, this propose address the challenge by effectively distributing compute-


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ENERGY EFFICIENT FREQUENCY MULTIPLIER FOR SILICON ON CHIP

C.Priya, Dr.R.Arangasamy

PG Scholar, Dept Of VLSI Design, Paavai Engineering College (Autonomous),
Prof and HOD, Dept of Electronics Communication And Engineering, Paavai Engineering College (Autonomous).

Abstract:

A logic gate-based digital frequency multiplication technique for low-power frequency synthesis is presented. The proposed digital edge combining approach offers broadband operation with low- power and low-area advantages and is a promising candidate for low- power frequency synthesis in deep submicrometer CMOS technologies. Chip prototype of the proposed frequency multiplication-based 2.4-GHz binary frequency-shift-keying (BFSK)/amplitude shift keying (ASK) transmitter (TX) was fabricated in 0.13- μm CMOS technology. The TX achieves maximum data rates for BFSK and ASK modulations, respectively, consuming The corresponding energy efficiencies for BFSK for ASK modulations.

Key words: Binary frequency-shift-keying (BFSK) transmitter (TX), class-D power amplifier (PA), energy efficient, frequency multiplication technique.

1. INTRODUCTION

Low-power and low-area transmitter (TX) architectures are essen- tial for short-range communications such as wireless sensor networks, body area networks, and other battery operated applications. These low-power applications have relaxed requirements on phase noise, spectral purity, and other performance metrics of TX, which can be used as an extra degree of freedom in the TX architecture design. Phase-locked loop (PLL)-based TXs are both power and area efficient compared with the conventional mixer-based direct up-conversion TX architectures.

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Segmentation Based Matrix Code for Communication Channel

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Abstract
The problem of simultaneously broadcasting a common source to multiple receivers over a broadcast channel remains a challenging open problem in network information theory. Each receiver is required to partially reconstruct the source sequence by decoding a certain fraction of the source symbols. Our scheme involves splitting the source sequence into multiple segments and applying a systematic erasure code to each such segment. In this project, novel decimal matrix code (DMC) based on divide-symbol is proposed to enhance data reliability with lower delay overhead. The proposed DMC utilizes decimal algorithm to obtain the maximum error detection capability of communication

1. INTRODUCTION
Error detection is the detection of errors caused by noise or other impairments during transmission from the transmitter to the receiver. Summer is another name for error detection. Error correction is the detection of errors and reconstruction of the original, error-free data. The general idea for achieving error detection and correction is to add some redundancy (i.e., some extra data) to a message, which receivers can use to check consistency of the delivered message, and to recover data determined to be corrupted. Error-detection and correction schemes can be either systematic or non-systematic. In a systematic scheme, the transmitter sends the original

arrangement to separate the bits in the same logical word into different physical words.
3) Built-in current sensors (BICS) are proposed to assist with single-error correction and double-error detection codes to provide protection against MCUs
4) 2-D matrix codes (MCs) are proposed to efficiently correct MCUs per word with a low decoding delay, in which one word is divided into multiple rows and multiple columns in logical. The bits per row are protected by Hamming code, while parity code is added in each column.

Existing Drawbacks:
1) PDS codes require more area, power, and delay overheads since the encoding and decoding circuits are more complex in these complicated codes.
2) Interleaving technique may not be practically used in content-addressable memory (CAM), because of the tight coupling of hardware structures from both cells and comparison circuit structures
3) BICS technique can only correct two errors in a word.
4) 2D MC is capable of correcting only two errors in all cases.
Rateless codes are a popular class of codes that enable efficient communications over multiple unknown erasure channels at the packet level by simultaneously approaching the channel capacity at all erasure rates. Raptor codes, a special class of rateless

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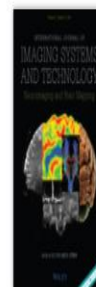


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Research Article

An efficient approach for brain image (tissue) compression based on the position of the brain tumor

S. Kumarganesh M. Suganthi

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Fetal ECG Extraction using LMS Filter

S.V.Vinoth, S.Kumarganesh
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Abstract
In this project, proposed a new method for fetal ECG extraction based on wavelet analysis, the least mean square(LMS) adaptive filtering algorithm, and the spatially selective noise filtration (SSNF) algorithm. First, abdominal signal sand thoracic signals were processed by stationary wavelet transform (SWT),and the wavelet coefficients a teach scale were obtained. For each scale, the detail coefficients were processed by the LMS algorithm. The coefficient of the abdominal signal was taken as the original input of the LMS adaptive filtering system, and the coefficient of the thoracic signal as the reference input. Then, correlations of the processed wavelet coefficients were computed. The threshold was set and noise components were removed with the SSNF algorithm.

1. INTRODUCTION
Electrocardiogram (ECG) signals are widely used in health monitoring as a non-invasive way to establish clinical diagnosis of heart diseases. Conventional ECG monitoring systems are based on long-term recording (e.g., using Holter devices) that generate a vast amount of data requiring huge storage and transmission capacity. These devices record data during one to five days of a patient's normal daily life, and they are restricted by patient's mobility, transmission capacity and physical size. Unfortunately, the fetal heartbeat signal yielded by this recording technique is quite weaker than the mother heartbeat signal, also due to the attenuation during the propagation caused by the tissues; moreover, many

The fECG extraction is a typical blind source separation (BSS) problem and the first application of BSS techniques to fECG extraction was done by De Lathauwer et al.

[1], it is well accepted that Independent Component Analysis (ICA) is a suitable tool for separating the fECG "source" from the rest; some different ICA based procedures has been exploited so far. ICA estimated by INFOMAX algorithm [2] (applied to a dataset with eight sensors), ICA by JADE algorithm and a Wavelet-post processing consisting in baseline removal and denoising [3] (applied to five sensors), Singular Value Decomposition (SVD) and ICA by FastICA algorithm [4] (applied to a single channel recording), ICA by MERMAID algorithm [5] (applied to eight channels), a sensor array and electrode selection algorithm for fECG extraction by ICA proposed by F. Vrins et al. [6] (applied to one hundred sensors). we extract fetal ECG from abdominal signal using filtering techniques. Here, we use thoracic signal as reference signal for fetal ECG extraction. Fetal ECG extraction is done based on Stationary Wavelet Transform (SWT), the Least Mean Square (LMS) adaptive filtering algorithm and the Spatially Selective Noise Filtration (SSNF) algorithm related work

Dennis M.Healy, Jian Lu proposed Spatially Selective Noise Filtration technique for noise removal based on the direct spatial correlation of the wavelet transform at several different scales. The direct spatial correlation of wavelet transform contents at several adjacent scales enhanced major edges in the wavelet



QCA Design of Encoder for Low Power Memory Applications

Paavai Engineering College, Namakkal

A decoder is important component of memory, for address decoding and encoding. The size of Complementary Metal Oxide Semiconductor (CMOS) transistor keeps shrinking to increase the density on chip in accordance with Moore's Law. The scaling affects the device performance due to constraints like heat dissipation and power consumption. A Quantum dot Cellular Automata (QCA) is an alternative to CMOS. QCA offers higher speed, lower power consumption and higher density. In non reversible gates some amount of power loss is involved. Interest in reversible logic offers reduced heat dissipation and increases the speed. It is a new transistor-less computation in nanotechnology. In this project propose a reversible gate based decoder architecture. It provides reversibility and area minimization. QCA designer tool has been used to validate the performance of reversible decoders.

The increasing demand for low-power very large scale integration (VLSI) can be addressed at different design levels, such as the architectural, circuit, layout, and the process technology level. At the circuit design level, considerable potential for power savings exists by means of proper choice of a logic style for implementing combinational circuits. This is because all the important parameters governing power dissipation—switching capacitance, transition activity,

Nanotechnology is one of the possible alternatives to the stated trade off problem. ITRS report summarized several possible solutions. The possible variants are i) Delti (double-electron-layer tunneling transistor) developed by scholars at SN labs, ii) SET (single electron transistors) iii) rapid single quantum flux logic, iv) quantum cellular automata. SETs are a promising technology for non volatile memory.

To the best of our knowledge, the concurrent testing of faults in QCA and QCA-based sequential circuits has not been addressed in the literature. In this paper, we propose novel designs for concurrently testable latches for molecular QCA using conservative reversible logic. Reversible computation in a system can be performed only when the system comprises reversible gates. Reversible circuits do not lose information, and can generate unique output vector from each input vector and vice versa (i.e., there is a one-to-one mapping between the input and the output vectors). Landauer has shown that for irreversible logic computations, each bit of information lost generates kT in 2 joules of heat energy, where k is Boltzmann's constant and T the absolute temperature at which the





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EECRT: Efficient Energy Conservation Routing Technique for WSN with Node Mobility

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Abstract: In recent years, the main research challenge is the issues in wireless sensor networks (WSN). Energy conservation and coverage of the sensor nodes considered as major metrics for the long time survival of sensor networks. In this paper work, proposed an efficient energy conservation routing technique for WSN with node mobility (movable sensor nodes). Furthermore, in this proposed routing technique, two algorithms developed. Namely, Selectively Turning On/Off the Sensors (STOS) and Ongoing Routing Table (ORT). Moreover, in STOS, the sensor nodes divided into several sets of scheduling modes (active, standby, hibernate) and let them to perform alternatively, by which conserves extra energy. Consequently, in ORT Ongoing (up to date) data maintained to update and know the detailed information regarding mobile sensor nodes including the factors such as hop count, residual energy (current energy level), threshold energy with the status of the sensor nodes. In connection with ORT, the next sensor node will be identified for forwarding the information. Herein concentrated on dynamic network, where all the deployed sensor nodes are in-mobile except base station (BS) or sink node. Nevertheless, the absence or failure of BS, nearest mobile sensor node to the BS will act as BS. Provided, Simulation result shows that the proposed technique will be enough competent for maximizing the energy conservation.

Key words: Wireless • Sensor Networks (WSN) • Ongoing Routing Table (ORT) • Energy Conservation • Coverage • Mobile Sensor Node (MSN)

INTRODUCTION

Advances in wireless sensor networks becomes a major key technology for several applications such as Security surveillance, intelligent home, animal health and

major units. Namely, sensor unit, processor unit, transceiver unit, power supply unit and power generator unit. Herein, will concentrate on first four units in proposed work.

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Asian Journal of Information Technology

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DOI: 10.36478/ajit.2016.5084.5092

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[Abstract](#)

A Semi-Automatic Segmentation Approach for Kidney Stone Detection in Ultrasound Images

Authors : [T. Loganayagi](#)

Abstract: Ultrasound imaging is a non-invasive and inexpensive technique for detection of kidney stones. As the ultrasound images are affected by speckle noise, the segmentation of the images remains a challenging task. The manual detection and measurement of segmented stones become cumbersome and suffers from inter-observer variability. Hence, a computer aided algorithm is required for automatic stone detection and reproducibility with robust despeckling and segmentation techniques. In this study, an algorithm is developed by using Adaptive Bilateral Filter (ABF) for reducing speckle noise and mathematical morphological operations for segmentation of stones in ultrasound kidney images. The speckle reduction performance of ABF is evaluated by Peak Signal to Noise Ratio (PSNR), Structural Similarity Index Metrics (SSIM) and Edge Preservation Index (β). The proposed stone detection algorithm is analyzed through Pratt's Figure of Merit (FOM).

R.Mohana and Dr.R.Arangasamy

4) 2-D matrix codes (MCs) are planned to with efficiency


Error detection is that the detection of errors caused by noise or different impairments throughout transmission from the transmitter to the receiver. Sumner is another name

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ENERGY EFFICIENT FREQUENCY MULTIPLIER FOR SILICON ON CHIP

¹C.Priya, ²Dr.R.Arangasamy,

¹PG Scholar, Dept of VLSI, Paavai Engineering College,

²Professor, Dept of Electronics And Communication Engineering, Paavai Engineering College.

ABSTRACT:


Now a days the digital signal processing and its classification applications on the energy constrained devices should be supported on the basis of efficiency. Because such applications have to perform highly complex computations especially complex multiplication processes while exhibiting tolerance for a large amount of noise and for computational errors too. So, comparing all the arithmetic computations, improving the energy efficiency of multiplication is critical. In this brief, an energy efficient approximate m bit vedic multiplier is proposed which gives a trade off between computational accuracy and energy consumption. The proposed architecture has reduced area compared to other multiplier architectures which process same number of bits. The reduced architecture area reduces the power consumption. Also the vedic technology adopted for the multiplication reduces the delay further. But the approximate architecture output possess a small amount of computational accuracy which is negligible for DSP applications. .

Keywords: digital signal processing; energy efficient; vedic multiplier; approximate multiplier.

1. INTRODUCTION

For today's embedded system and mobiles energy consumption is a critical design problem. A lot of efforts have already taken at various levels for improving energy efficiency. Among other arithmetic operations, multiplication is the most time and power consuming operation. It becomes more significant for large operands and complex multiplication. Usually in computing devices for executing the DSP applications

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P. Ammani and S. Kumarganesh

Image pre-processing is a vital and stimulating consider the computer-aided diagnostic systems. In medical image process and notably in growth segmentation task it's important to pre-process the image so segmentation and have

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Journal – ICON (Integrating Concepts)ISSN 2456-6071Vol. 2, Issue 3, May 201712

An Efficient Brain Tumour Detection Using Region of Interest

G.Jayasree and S.Kumarganesh

Abstract—In the medical field analyzing image is vital for several method. In our body several organs area unit gift however brain is incredibly necessary for all operate. Suppose if it affected by any growth that is gift within the brain. For analyzing tumor compression method is required. Here ROI is employed for compression method. ROI provides smart compression. Compression is nothing however to scale back the information while not loss of data that ought to be bestowed within the digital image. During this paper writing, several parameters were analyzed like MSE, PSNR.

Index Terms – Brain Tumour, ROI, Region of Interest, MSE, PSNR

I. INTRODUCTION

Now a days, human life square measure modified into computerized system. thanks to this info square measure hold on in a very digital kind and it's to be take into account as a sort of information. This method could be a wide field of digital image. It additionally covers the medical pictures. Medical imaging is that the method of making visual representations of the inside human body for clinical analysis and medical intervention. Medical imaging seeks to reveal internal structures hidden by the skin and bones, additionally on diagnose and treat sickness. Medical imaging additionally establishes a information of traditional anatomy and

utterly discards the redundancy from the signal or image. It additionally results loss of knowledge by mistreatment division method, that types the information into completely different bins and every bin portrayed by a worth, however provides a lot of higher compression magnitude relation. The target of this paper to scale back the bit size while not degraded the image.

II. LITERATURE SURVEY

Medical imaging is one the outstanding application of digital image process. Numerous medical identification techniques square measure mistreatment digital pictures of build. Imaging helps heap of internal drawback occur in human body in visual manner. It's employed in drugs like imaging, CT and X-rays etc. compression is employed in medical field for analyzing internal components of the body. Several techniques square measure employed in compression method. Here ROI is employed for compression method.

III. PROPOSED TECHNIQUE

The brain image is taken for compression technique. in this brain image neoplasm is conferred, this is often taken for segmenting method. Segmentation is nothing however partitioning digital image into multiple segmentation. The

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Vol. 2, Issue 3, May 2017

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An Efficient High Power Node Rejection Clustering Algorithm for WSN

S.Sivaranjani and M.Sudha

Abstract– Power heterogeneousness is common in mobile unplanned networks (MANETs). With high-octane nodes, MANETs will improve network quantifiability, property, and broadcasting business WSN will improve network quantifiability, property victimization high power nodes however, the output of power heterogeneous WSN is full of these nodes. to beat this downside, a loose-virtual-clustering-based (LVC) routing protocol for power heterogeneous (LRPH) WSNs is planned. The algorithmic rule aim at making Bi directional links by exploiting the benefits of high-octane nodes. so as to decrease the interference raised by high-octane nodes, routing algorithms ar developed to avoid packet forwarding via high-octane nodes. we have a tendency to demonstrate the system implementation and experimental results through simulations.


Index Terms–Mobile ad hoc networks, LVC, LRPH, Routing

I. INTRODUCTION

Mobile accidental network (MANET) may be a self-configuring, infrastructure less network of mobile devices connected by wireless and may amendment locations as shown in fig one.1. Nodes in painter will communicate with one another and may move anyplace while not restriction. Quality isn't restricted and characteristics of MANETs square measure simply deployable, so that they square measure very talked-about and appropriate for emergencies, natural disaster and military operations. Movable network consists of devices per node or conserving energy-efficient routes for the whole network [3]. But, the massive transmission varies of high power nodes results in large interference that reduces the abstraction utilization of network channel resources. Thanks to completely different transmission power, unidirectional links can occur in MANETs. Thence our aim is to interchange unidirectional links with duplex links. Several routing protocols in power varied MANETs square measure designed solely to seek out the unidirectional links and to avoid the transmissions supported these links while not creating use of the advantages of high-energy nodes. The routing performance of power heterogeneous MANETs ought to be improved by considering the benefits and neglecting the disadvantages of high- power nodes. Hence, during this paper we have a tendency to plan a loose- clustering-based (LVC) routing protocol for power varied MANETs, i.e., LRPH that achieves higher outturn. We have a tendency to build LVC to find unidirectional links by creating use of the advantages of high power nodes. Bunch may be a theme to boost the performance of the network.

So as to attain optimized bunch, a stratified cooperation theme is employed. The amount of stratified stages and also the connected cluster sizes that maximize the overall outturn is chosen. This theme is applied for random

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A Defence Against Sybil Attack in OLSR Protocol

T. Saranya and A.Kumaravel

Abstract – An ad-hoc network is improved methodology of communication that reduces the network overhead. It's a brief infrastructure less network that could be an assortment of mobile nodes within the dynamically kind and freely self-organize into absolute and temporary ad-hoc network topologies counting on their property with one another within the network. Nodes are unceasingly dynamic their locations and conjointly the node functioning depends on the restricted battery capability that's known as energy. This enables peoples and devices to seamlessly inter-network in areas wherever no pre-existing communication infrastructure exists. This network is usually freelance associate degree an isolated network, a collection of mobile nodes which might communicate directly with different nodes inside its transmission array and use multi-hop routing for nodes outside its transmission vary is named Mobile ad-hoc Network (MANETs). All nodes are battery operated, as battery power or battery energy restricted resource so it needs special attention to reduce energy consumption in MANETs. To have a secure communication it's should be a secure network, a very harmful and dangerous attack against mobile ad-hoc network is thought as Sybil attack. It creates a heavy threat to such network. A Sybil assaulter will either produce quite one identity on one physical device so as to launch a synchronic attack on the network or will switch identities so as to weaken the detection method, there by promoting lack of responsibility within the network it's powerfully fascinating to discover Sybil attacks and eliminate them from the network. During this paper, compared the present solutions and mentioned completely different strategies to eliminate the Sybil attack in painter and projected a light-weight theme victimisation the network machine Ns-2 to safeguard the network against Sybil attack while not victimisation centralized sure third party or any extra hardware like aerial or a geographical positioning system. Through the

increase ton of misjudgments among the nodes of a network or it should use identity of alternative legitimate nodes gift within the network and creates false expression of that node within the network. Like this, it annoys the communication among the nodes of the network. to own secure communication it's necessary to eliminate the Sybil nodes from the network. the subsequent goals should be consummated by security formula wont to sight the attack:

- Authenticity: It means that the exactitude and legality of the node collaborating within the communication.
- Availability: All nodes and their facility should gift all the time.
- Confidentiality: Authorize access should be there for the user.
- Non-repudiation: Sender and Receiver can't deny that they need send the message was 1st introduced by J. R. Douceur. consistent with Douceur, the Sybil attack is associate degree attack within which one entity will management a considerable fraction of the system by presenting multiple identities.

Figure.1 represents a malicious node S beside its four Sybil nodes (S1, S2, S3 and S4). If this malicious node converses with any legitimate node by presenting all its identities, the legitimate node can have delusion that it's communicated with 5 totally different nodes. however in actual, there exists only 1 physical node with multiple totally different IDs.

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Vol. 2, Issue 3, May 2017

14

An Bait Address Based Backpressure Routing for MANET

S.Jotheshwaran and A.Kumaravel

Abstract–In mobile impromptu networks (MANETs), a primary demand for the institution of communication among nodes is that nodes ought to collaborate with every other. Within the presence of malevolent nodes, this demand could cause serious security concerns; for example, such nodes could disrupt the routing method. During this rule, to safeguard backpressure rule based mostly routing and scheduling protocols against varied business executive threats. This paper makes an attempt to resolve this issue by coming up with a dynamic supply routing (DSR)-based routing mechanism, that is said because the cooperative bait detection theme (CBDS), that integrates the benefits of each proactive and reactive defense architectures. Our CBDS methodology implements a reverse tracing technique to assist in achieving the declared goal.

Index Terms–Mobile adhoc network, Routing, DSR, CBDS

1. INTRODUCTION

Mobile suggests that 'moving' and ad-hoc suggests that 'temporary with none infrastructure'[13]. Therefore, a mobile ad-hoc network is created from cluster of mobile nodes, that

painter has several defects. These threats build the safety of painter lesser than a cable network and manufacture several security problems. as a result of the communication of painter uses the open medium, offender will simply catch message that area unit transmitted. the planning of previous routing protocol trusts fully that each one nodes would transmit route request or knowledge packets properly, dynamic topology, with none central infrastructure, and lack of certification authorities build painter liable to various varieties of attacks [11], one amongst common attack is part attack that's a malicious node will attract all packets by victimization solid RREP to incorrectly claiming a recent and shortest route to the destination then discard them while not forwarding them to the destination [11], this is often shown in Fig. 1. part attack may be a reasonably Denial-of-Service attacks and derive grey hole attack, a variant of part that by selection discards and forwards knowledge packets once packets bear it [10]. Cooperative part attacks mean many malicious nodes join forces with one another and work rather like a gaggle. this type of attack leads to several detection strategies fail and causes additional large hurt to any or all network [10].

during this paper we have a tendency to propose CBDS that integrates the Proactive and reactive defense architectures, and

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Electric vehicle by using modified topology of multilevel inverter

This paper focused with extends the knowledge in studies and analysis of a new family of diode clamp multilevel inverter for electric vehicle application. The modified new diode clamp multilevel inverter concepts is related to reducing the components utilization, which has $(n-1)$ switching devices, $(n-3)$ clamping diodes, $(n-1)/2$ DC-link sources for achieving the same voltage level of traditional topologies. The proposed system is enhanced the voltage rating and reduce the total harmonics distortion in inverter output voltage. The switching scheme of Alternatively on Opposition Disposition pulse width modulation strategies is implemented to control multilevel inverter. The proposed system reduces the components utilization which has utilizes 45% of components for achieving the same level of voltage. The modified new diode clamp multilevel inverter is coupled with induction motor and its performance is validated with three phase induction motor for variable frequency drive. The inverter topologies performance has been investigated by prototype model.

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Article DOI : [10.5958/2249-7315.2016.00194.5](https://doi.org/10.5958/2249-7315.2016.00194.5)

Power Generation from the Dynamic Wind Energy available during Maneuvering of Train

Balaji G.*, Rathinavel S.**

*Professor, Department of Electrical and Electronics Engineering, Paavai Engineering College, Namakkal, Tamil Nadu, India

**Assistant Professor, Department of Electrical and Electronics Engineering, Paavai Engineering College, Namakkal, Tamil Nadu, India

Online published on 1 June, 2016.

Abstract

A wind power electricity generation system is the most cost competitive of all the environmentally clean and safe renewable energy sources in the world. This paper brings a new possibility for the utilization of the wind generated power, for various electrical components inside a typical railway train through the batteries charged by the wind energy harnessed by a series of wind turbines mounted near the rest room of each coaches of train coaches. This paper deals with the design and development of a wind turbine system with a concept of generation of electricity as an auxiliary source in the train. Aerodynamics is the study of air flow around a moving object where the dynamics of bodies moving relative to gases, especially the interaction of moving objects with the atmosphere. The aerodynamic profile is formed with a rear side, is much more curved than the front side facing the wind. Thus the movement of wind and its velocity can be studied based on this analysis. The simulation results and the theoretical results are verified.

Keywords

Wind Energy, Wind Turbine, Railway Train.

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Author's Name : K Ramamoorthi | Dr G Balaji

Volume 04 Issue 04 2017

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Page no: 231-234

Abstract – The paper presents rapid growth of wind power systems worldwide will likely see the integration of large wind farms with electrical



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A STATCOM-Control Scheme for Grid Connected Wind Energy System for Power Quality Improvement using PI Controller

Balaji G.*, Sibichakravarthy A.**
*Department of Electrical and Electronics Engineering, Paavai Engineering College, Namakkal
**Department of Electrical and Electronics Engineering, Paavai Engineering College, Namakkal
Online published on 1 June, 2016.

Abstract

The grid-connecting wind energy generation system for power quality improvement by using STATCOM-control scheme is simulated with the help of MATLAB. When the wind power is connected to an electric grid, it affects the power quality. The effects of connecting wind turbine into the grid system covers power quality areas such as active power, reactive power, harmonics and variation of voltage, and electrical performance of switching operations. The installation of wind system with the grid creates the power quality problems which can be determined by studying this paper. By using the Static Compensator (STATCOM) with using battery energy storage system (BESS) at the point of common coupling to improve the power quality of the grid. The battery energy storage is used to keep real power from varying wind power. At lower power demand hours the generated power can be stored in the batteries. The combination of battery storage with wind energy generation system will even out the grid system by absorbing or injecting reactive power and enable the real power flow essential to the load. This recreates the main supply source from the reactive power demand of the load and induction generator in this proposed scheme.

Keywords

International electro-technical commission (IEC), power quality, wind generating system (WGS), battery energy storage system, STATCOM.

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Power Generation from the Dynamic Wind Energy available during Maneuvering of Train

Balaji G.*, Rathinavel S.**
*Professor, Department of Electrical and Electronics Engineering, Paavai Engineering College, Namakkal, Tamil Nadu, India
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Keywords

Wind Energy, Wind Turbine, Railway Train.

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B. Murali Babu & S. Vadivel

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3D Numerical Modeling of Quantum Dot Photo Detector using Haar Wavelet Transform

Babu B. Murali^{*}, Kavitha K. R.^{}, Elakkiya P.^{*}**

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^{**}Department of Electronics and Communication Engineering, Sona College of Technology, Salem, Tamil Nadu, India

Online published on 14 October, 2016.

Abstract

The 3D numerical modeling of nano scale InGaAs quantum dot is developed and the characteristics of the device are analyzed using Haar wavelet transform. The exact potential and energy profile of the quantum dot are computed by obtaining the solution of 3D Poisson and Schrodinger equations. The developed model is applied in photo detector application. The dark current, photo current, responsivity, detectivity and efficiency of the model are calculated by considering the structural parameters quantum dot density, applied voltage, length of quantum dot layer, number of quantum dot layer and temperature. The model is validated by comparing the results obtained with the existing models. The developed model is applied in photo detector. The photo current, responsivity, detectivity and efficiency of the model are calculated by considering the structural parameters like quantum dot density, applied voltage, length of quantum dot layer, number of quantum dot layer, light intensity and temperature. The model is validated by comparing the results obtained with the existing models.

Keywords

Quantum Dot, Schrodinger equation, Poisson equation, Dark current, Photo current, responsivity.

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Performance Characterization of Quantum Dot Solar Cell using Homotopy Decomposition Method

Babu B. Murali*, Kavitha K. R.**

*Department of Electrical and Electronics Engineering, Paavai Engineering College, Namakkal, Tamil Nadu, India

**Department of Electronics and Communication Engineering, Sona College of Technology, Salem, Tamil Nadu, India

Online published on 2 August, 2016.

Abstract

The 3D numerical model of InGaAs quantum dot solar cell is developed and presented in this paper. The device characteristics are examined based on the exact potential and energy profile of the quantum dot obtained from the solution of 3D Poisson and Schrodinger equations using Homotopy decomposition method. The QD current is estimated by considering the QD parameters and the results obtained show that the QD current is strongly influenced by quantum dot density and applied voltage. The characteristics of the quantum dot solar cell such as photocurrent, spectral response, recombination rate for the quantum wavelength and QD layers are obtained for various device parameters. The numerical simulation results exhibit the strength of the proposed model.

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Keywords

Quantum Dot, Poisson equation, Schrodinger equation, Homotopy Decomposition Method, QD current, Photocurrent.

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


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Quadrilateral Scaled Threshold Weighted Averaging Filter for MRI Denoising

Daisy V. Royna, Nirmala S.

Centre for Advanced Research, Muthayammal Engineering College, Rasipuram, India

Online published on 2 July, 2016.

Abstract

Image denoising of Magnetic Resonance Imaging (MRI) by manifold approach focuses on the removal of inhomogeneous Gaussian and Rician noise without blurring the fine anatomical structures. Non Local Means (NLM) filter, the popular denoising technique, does not hold well for edge preservation of images with low Signal to Noise Ratio (SNR). Hence, an alternative formulation of NLM filter is required. This paper presents a quadrilateral scaling method based on image gradients for change in the isotropic nature of NLM and provides an estimate for edge orientation. A new definition of NLM weights based on similarity intensity measures that reflect on the noise statistics is introduced. The efficacy and feasibility of the proposed method is demonstrated through simulation. The probable reduction in time consumption is illustrated.

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Keywords

Similarity measures, Quadrilateral scaling, Gradients, Threshold, Rician Noise.

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Fabrication and performance estimation of dye sensitized solar cell based on CdSe/ZnO nano particles

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3D Numerical Modeling of Quantum Dot Photo Detector using Haar Wavelet Transform

Babu B. Murali^{*}, Kavitha K. R.^{}, Elakkiya P.^{*}**

^{*}Department of Electrical and Electronics Engineering, Paavai Engineering College, Namakkal, Tamil Nadu, India
^{**}Department of Electronics and Communication Engineering, Sona College of Technology, Salem, Tamil Nadu, India

Online published on 14 October, 2016.

Abstract

The 3D numerical modeling of nano scale InGaAs quantum dot is developed and the characteristics of the device are analyzed using Haar wavelet transform. The exact potential and energy profile of the quantum dot are computed by obtaining the solution of 3D Poisson and Schrodinger equations. The developed model is applied in photo detector application. The dark current, photo current, responsivity, detectivity and efficiency of the model are calculated by considering the structural parameters quantum dot density, applied voltage, length of quantum dot layer, number of quantum dot layer and temperature. The model is validated by comparing the results obtained with the existing models. The developed model is applied in photo detector. The photo current, responsivity, detectivity and efficiency of the model are calculated by considering the structural parameters like quantum dot density, applied voltage, length of quantum dot layer, number of quantum dot layer, light intensity and temperature. The model is validated by comparing the results obtained with the existing models.

Keywords


Quantum Dot, Schrodinger equation, Poisson equation, Dark current, Photo current, responsivity.

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Effect of annealing temperature on structural, optical and humidity sensing properties of indium tin oxide (ITO) thin films

M. Premkumar & S. Vadivel 

Journal of Materials Science: Materials in Electronics **28**, 8460–8466 (2017) | [Cite this article](#)

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Abstract

Tin doped indium oxide (ITO) thin films were prepared by sol–gel spin coating method with $\text{In}(\text{NO}_3)_3 \cdot 3\text{H}_2\text{O}$ and $\text{SnCl}_4 \cdot 5\text{H}_2\text{O}$ as indium and tin sources, respectively. The as deposited samples were annealed at various temperature such as, 300, 400, 500 and 600 °C for 2 h in ambient atmosphere. **The grown ITO thin films are polycrystalline in nature with cubic**

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Premkumar .M; Ramachandran .S.

International Journal on Design and Manufacturing Technologies; Chennai Vol. 5, Iss. 1, (2011): n/a.

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THERMAL ANALYSIS OF COPPER AND CHROMIUM ALLOY, COPPER AND ALUMINIUM SOLAR ABSORBER

Premkumar M¹, Ramachandran S²

¹Research Scholar, Department of Mechanical Engineering, Sathyabama University,

²Department of Mechanical Engineering, Sathyabama University, India

Abstract

In the solar chimney solar collector plates are used for heating up the ambient air. Increase in the temperature of the air inside the chimney increases the efficiency. Thus the solar absorber selected plays an important role in the efficiency of the solar chimney. In this paper the heat transfer analysis is done for solar absorbers: aluminium, copper and copper chromium alloy using ANSYS. The fluid dynamics analysis helps us to select the optimum solar absorber. The analysis of various solar collector plates, the nodal temperature of the copper plate is compared with the copper and aluminium plates. The heat transfer and thermal conductivity of the chromium plate is compared with copper and aluminium plates.

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Performance Assessment of Eco-Friendly Refrigerant Mixtures Alternative to HCFC 22 in a Small Capacity Window Air Conditioner

Elumalai P.^{*,***}, Vijayan R.^{**}^{*}Department of Mechanical Engineering, Paavai Engineering College, Namakkal, Tamilnadu, India^{**}Department of Mechanical Engineering, Government College of Engineering, Salem, Tamilnadu, India^{***}Corresponding Author Email ID: eluammu@gmail.com

Abstract

This paper deals with the experimental work, which has been carried out in 1 ton of refrigeration window air conditioner working with ternary refrigerant mixture namely R152a/R290/R600 (by weight 80%/10%/10%). The properties of selected refrigerant mixtures were obtained from NIST REFPROP 7.0 for comparative analysis and refrigerant performance of proposed blends and of R22 for the given operating conditions. From the test results observation, The performance coefficient of M3 were found to be higher than that of R22 by 5.25% and the compressor power of M2, M3, M5, M1 were found to be lower by 5.22%, 5.22%, 1.74%, 0.87% respectively. Based on the experimentation and calculation, it is found that this new proposed mixture could be considered as potential replacement candidate for R22 in many applications and has shown better results as far as performance parameters are concerned and in turn they are benign to the environment

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Keywords

R22, Window Air conditioner, Global Warming, Ternary mixture, Environment Zero ODP.

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2. Pyrolysis mechanism
3. Pyrolysis reactors and product yield
4. Characteristic analysis of tyres
5. Processing of pyrolysis oil
6. Engine performance and emission analysis
7. Combustion analysis
8. Conclusion

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Renewable and Sustainable Energy Reviews

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Tyre pyrolysis oil as an alternative fuel for diesel engines – A review

S.T. Kumaravel ^a , A. Murugesan ^b, A. Kumaravel ^b

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Received 19 June 2015, Revised 25 January 2016, Accepted 8 March 2016, Available online 31 March 2016.

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Embedded c controlled security door with hand-operated password

K.Yuvaraj¹, S.Vickram¹, M.Syed Abuthahir¹, P.Prem kumar¹, M.Maharajan¹,
D.R.P.Rajarithnam², S.Mohankumar³, M.Venugopal³

¹B.E./Mechatronics Engineering College, Pachal, Namakkal

²Professor, Dept. of Mechatronics Engineering, Pachal, Namakkal

³Assistant Professor, Dept. of Mechanical Engineering, Paavai Engineering College, Pachal, Namakkal, Tamil Nadu, India

Abstract-Our project aims at far-flung password based door opener system through an android application. The system tends to make a protected door opening mechanism such that the door only unlocks when a security personnel opens it by entering the right password. The authorized personnel need to be present within Bluetooth range of the door but need not open the door manually. He just needs to introduce the right password through his android application in order to unlock the door. This is a useful concept in places where the surveillance needs to open gates quite usually or need to operate a door from a vehicle without needing to get down.

Key Words: Android application, user friendly GUI, Bluetooth, Microcontroller, Password etc.

devices in our everyday life like Washing tool, Microwave Ovens, where they are embedded in.



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Enhancement of Wear Resistance of AISI 1040 Forged Steel Roller Shaft by different Ceramic Oxide Coatings using Plasma Spray Process for Sugarcane Industries

Rajarithnam D. R. P., Jayaraman M.**

*Department of Mechanical Engineering, Paavai Engineering College, Namakkal, Tamilnadu, India
**Department of Mechanical Engineering, Velalar College of Engineering and Technology, Erode, India

Online published on 14 October, 2016.

Abstract

In this investigation, ceramic oxide powders alumina, titania, chromia, alumina-titania, alumina-chromia and titania-chromia are coated on AISI 1040 forged steel substrate with a coating thickness of 200 µm by using the plasma spraying technique. Ni-Cr is used as an intermediate bond coat material to improve the coating adhesion for a thickness of 20 µm over the substrate. By using a pin-on-disc machine, dry wear test was carried out as per ASTM-G99 standards for a constant load of 10N, at different sliding distances of 1000m, 2000m, 3000m respectively. The result showed that the wear rate depends on various attributes such as microstructure, thickness of coating, porosity, surface roughness and hardness. Surface roughness measurements were performed on the specimens before and after wear tests by using talysurf instrument and the results showed that the highest value (20.42 µm) was obtained from the coating of alumina-titania. From the above investigation, the results obtained showed that a pure chromia coated specimen is having very good wear resistance property among the tested specimens. Hence it is suggested that pure chromia can be used for surface coating on top mill roll shaft used in sugar industries to enhance wear resistance.

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Delay Tolerant Spatial Distribution of Content Replication in Wireless Networks for Efficient Video Streaming

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¹Department of Information Technology,
Paavai Engineering College, Pachal, Namakkal, Tamilnadu, India
²Principal, Pavai College of Technology, Pachal, Namakkal, Tamilnadu, India

Abstract: The growth of information technology has introduced various functionalities and services to support video streaming like video streaming and live streaming. There are many approaches has been discussed to support content delivery in wireless networks, but suffers with the problem of latency and quality of streaming which takes more time and the frequency of retransmission is high. To solve these problems, we propose a delay tolerant approach with spatial distribution of video contents to support efficient video streaming. The proposed method maintains numbers of replicas of video content in different locations of wireless networks. The method selects the location of the video content or the node which has the requested data according to the delay present in the network and the user location. Also the number of replicas maintained is performed according to the spatial request factor which represents the number of request being received from different user from a specific spatial region and the delay present in the network towards a video content. The proposed method reduces the overall latency present in the network and increases the efficiency of content delivery which supports multimedia data transfer. Also the proposed method reduces the overall time complexity and reduces the overhead introduced by data transfer.

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Abstract


Cloud storage services have grown popularly. For the importance reason of privacy, many cloud storage encryption schemes have been proposed to secure the data from those who do not have access. All such schemes assume that cloud storage providers are secure and cannot be hacked. However in practice, some authorities may compel cloud storage providers to make public user secrets and confidential data. We consider the problem of building a secure cloud storage service on top of a public cloud infrastructure where the service provider is not completely trusted by the customer. In this paper a new cloud storage encryption schema is proposed which allows cloud storage providers to protect user privacy. Since authorities cannot tell the obtained secrets are true or false, the cloud storage providers ensure that the user privacy is still securely provided. The proposed schemes believe

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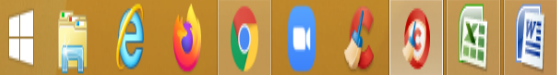
Cloud storage services have grow popularly. For the importance reason of privacy, many cloud storage encryption schemas has been proposed to secure the data from those who do not have access. All such schemes assumes that cloud storage providers are secure and cannot be hacked. However in practice, some authorities may compel cloud storage providers to make public user secrets and confidential data. We consider the problem of building a secure cloud storage service on top of a public cloud infrastructure where the service provider is not completely trusted by the customer. In this paper a new cloud storage encryption schema is proposed which allows cloud storage providers to protect user privacy. Since authorities cannot tell the obtained secrets are true or false, the cloud storage providers ensure that the user privacy is still securely provided. The proposed schemes believe

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**MICROWAVE DRYING OF ALOE VERA (ALOE BARBADENSIS MILLER):
MATHEMATICAL MODELING, KINETICS AND MASS TRANSFER
ASPECTS**

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ABSTRACT

Aloe vera has extensive application in food and pharmaceutical industry in fact contains 97 percent of water. It's perishable in nature and poor shelf life makes it essential to study the drying characteristics of aloe vera. The objective of this present study is to investigate the effect of different microwave (MW) respective power levels (180, 360, 540, 720 and 900 Watts) regarding the moisture ratio (MR), drying rate (DR), effective moisture diffusivity (EMD), specific energy consumption (SEC) and drying efficiency (DE) of aloe vera. The drying process took 70 - 26.5 minutes for attainment of equilibrium moisture content. A mathematical model done by Midilli et al. is considered to be the best and most suitable for a drying conditions among the various thin layer models. The effective moisture diffusivity value at 180 Watts (W) of MW power was found as 4.5×10^{-8} m²/sec. while it was raised to 9.45×10^{-7} m²/sec at 900 W in this study. Lowest energy consumption 1.4 MJ/Kg water and maximum drying efficiency occurred at higher microwave power level 900 Watts due to less drying duration (time).

Keywords: Microwave; Drying; Aloe vera; Moisture; energy.

1. INTRODUCTION

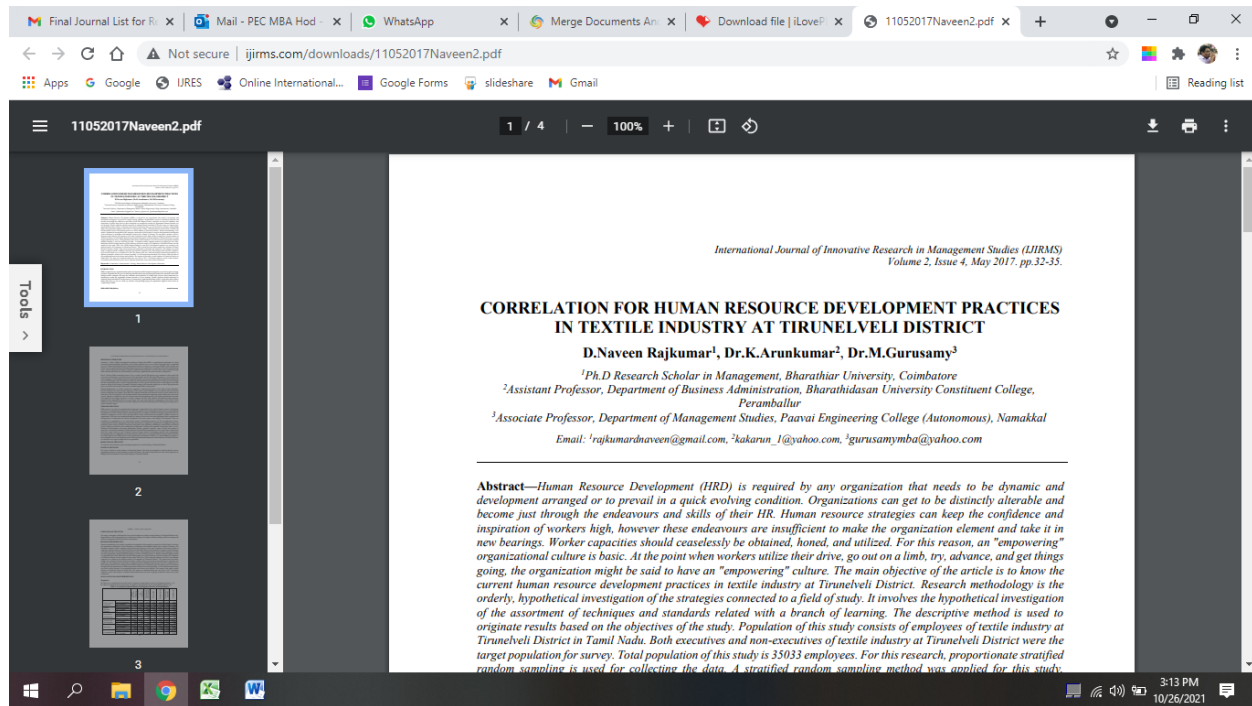
Aloe Vera (*Aloe barbadensis miller*) is a shrubby or arborescent, perennial, xerophyll, pea-green color plant which grows in being cultivated in many parts of the country. An adult aloe vera plant reaches the height of 30 inches within 1-2 years and having up to 19 to 21 leaves. The leaves are thick, fleshy and green to grey-green in color. The fleshy portion of aloe vera leaves contains different phytochemicals, which are used in the production of various commodity products such as shampoo, gel, body wash, body lotion, sun screen, soothing night cream, face cream, shaving creams, face wash, hair cleanser, soap, juice, tea and powder. Due to its potential health benefits it was reported by many researchers [1-3]. So large scale agricultural production of aloe vera in large quantity is undertaken in several countries such as Australia, Bangladesh, Cuba, Dominican Republic, China, Mexico, Jamaica, Kenya, Tanzania, South Africa, and United States of America. The shelf life of fleshy portion of aloe vera leaves is very limited because of its higher moisture content, it was too difficult to store for a longer period. Hence, increasing shelf life of aloe vera pulp without affecting both its nutritional and chemical composition has become necessary to meet the global demands.

Drying is one of the preservation method used to increase the shelf-life and maintains the nutritional value of the materials.

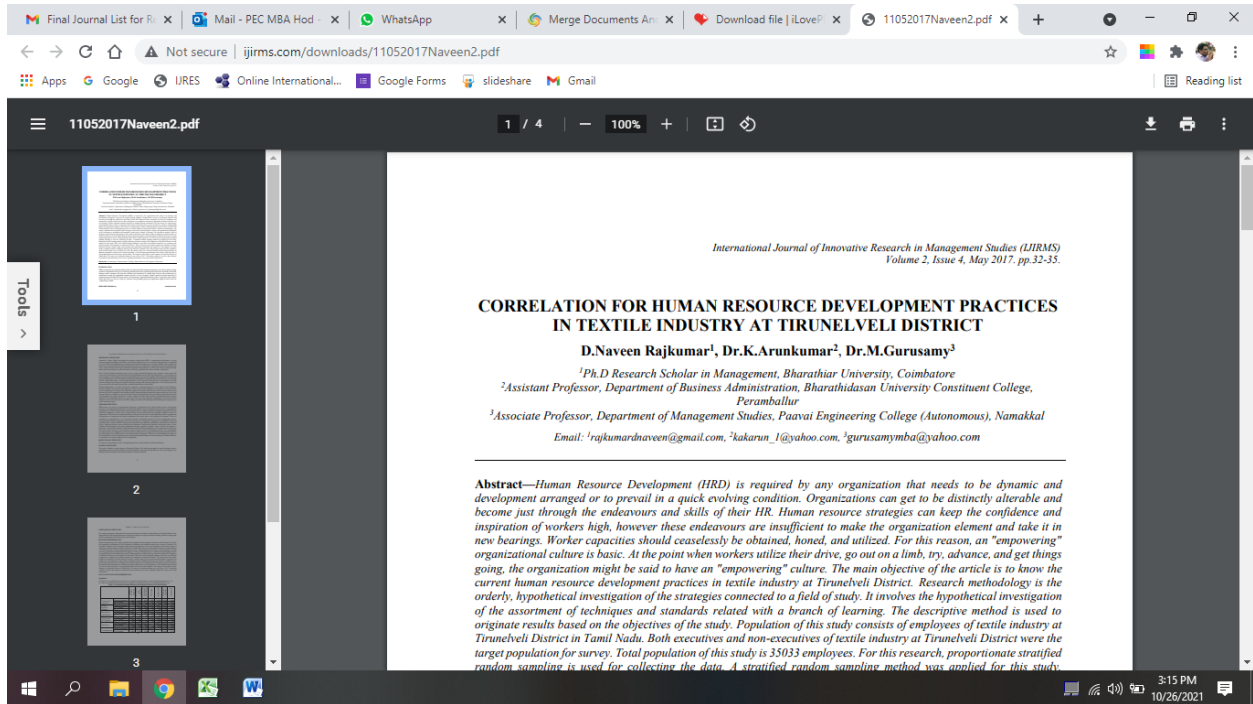
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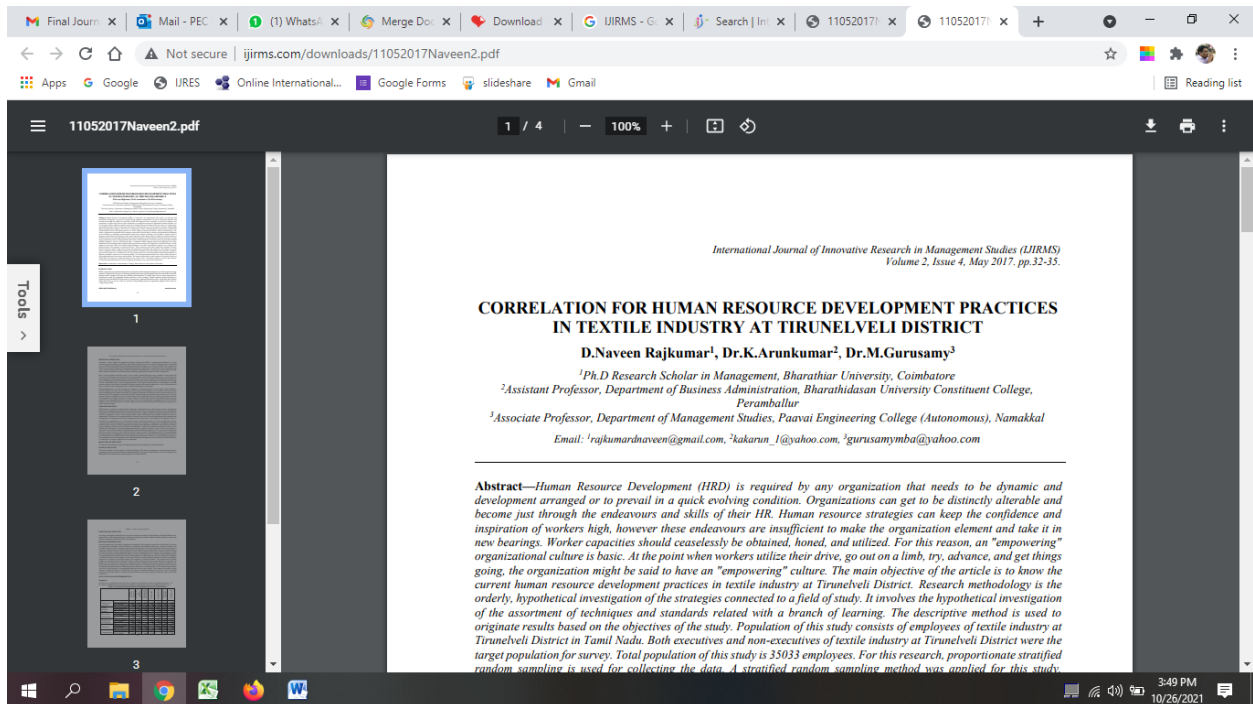
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Correlation for Human Resource Development Practices in Textile Industry at Tirunelveli District--Dr.M.Gurusamy



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A Study on Financial Performance Analysis of ICICI Bank and HDFC Bank-Dr.M.Gurusamy/ASP

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OSCILLATION THEOREMS FOR FRACTIONAL ORDER NEUTRAL DIFFERENTIAL EQUATIONS

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Abstract

The purpose of this paper is to study the oscillation of the fractional order neutral differential equation

$$D_{\alpha}^{\alpha} [p(t) \{D_{\alpha}^{\alpha} (x(t) + p(t)x(r(t)))\}^{\gamma}] + q(t)x^{\beta}(s(t)) = 0,$$

where $D_{\alpha}^{\alpha}(\cdot)$ is a modified Riemann-Liouville derivative. The obtained results are based on the new comparison theorems, which enable us to reduce the oscillatory problem of 2 α -order fractional differential equation to the oscillation of the first order equation. The results are easily verified.

1. Introduction

In this article, we are concerned with the oscillation of solutions to the nonlinear fractional order neutral differential equation with the form

Key Words : Oscillation, Comparison theorem, Fractional differential equation, Modified Riemann-Liouville derivative.

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OSCILLATION OF CERTAIN THIRD ORDER NONLINEAR DIFFERENTIAL EQUATION WITH NEUTRAL TERMS

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Abstract The main goal of this work is to establish some new comparison theorems for oscillation of solutions to the third order nonlinear differential equations with neutral terms of the form

$$\left[r(t) \left(x(t) + \sum_{i=1}^n p_i(t)x(\eta_i(t)) \right) \right]'' + q(t)x^\gamma(\sigma(t)) = 0,$$

are presented. We give several Theorems and related examples to illustrate the main results.

MSC: 34K11, 34C10, 34C15

Keywords: Third-order neutral differential equation, Non-linear, Comparison theorem, Oscillation of solutions.

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1. INTRODUCTION

This work is concerned with oscillation behavior of a class of third order nonlinear neutral differential equation

$$\left[r(t) \left(x(t) + \sum_{i=1}^n p_i(t)x(\eta_i(t)) \right) \right]'' + q(t)x^\gamma(\sigma(t)) = 0, \quad (E)$$

where $n > 0$ is an integer, $q(t)$, $\sigma(t)$, $p_i(t)$ and $\eta_i(t)$ are continuous differentiable on $[t_0, +\infty)$. Throughout this paper it always assume the following conditions hold:

(C₁) γ is a quotient of odd positive integers, $r(t), q(t) > 0$, $0 \leq p_i(t) \leq a_i < \infty$ for $i = 1, 2, \dots, n$;

(C₂) $\eta_i \circ \sigma = \sigma \circ \eta_i$, $\eta_i'(t) \geq \lambda_i > 0$ for $i = 1, 2, \dots, n$; and $\lim_{t \rightarrow +\infty} \sigma(t) = \infty$, $\sigma(t) < t$;

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