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Authors: P. Baranitharan, G. Mahesh

Paper Title: Alkali Treated Maize Fibers Reinforced with Epoxy Poly Matrix Composites

Abstract: Increasing the problem of Global warming, green house effects, climate changing, etc. So we want to use/ manufacturing products do not affect earth or not spoil the environment. So we want to make eco friendly products. This type of eco friendly products are manufacturing by major constituents of Natural or natural composite materials. Composite materials constitute a significant proportion of the engineered materials market ranging from everyday products to sophisticated niche applications. Natural fibers are worth as weight-saving materials. Natural fibers have been used to reinforce materials for over 3,000 years. Natural fibers have the advantage that they are renewable resources and have marketing appeal. Due to the demand and needs we want to find out new combination eco-friendly materials either recyclable, bio degradable or not affect the environment. In this fibers may be using for recyclable packaging, sealing, and fabrication applications. So want to study the properties of Maize fibers. Alkaline treating is essential one of Natural fibers treating. Alkaline treated Maize fibers properties are having better Tensile and elongation compare to raw Maize fibers. After the Alkali treatment go for Compression molding process and study the properties of the composites through conducting tensile test, TWAD Ph test and FTIR test etc. That result shows raw maize fiber better than alkali treated Maize fiber for using various applications.

Keywords: Maize fibers, Bio degradable straw, Epoxy, Compression molding.

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1.		1-7

Authors: Hussein Baqir

2.	**Paper Title:**	**A microcomputer Using Controller for Generation PWM**	
	Abstract: Design and construction of microcomputer for inverter controlling, this inverter is designed by using power electronics switches type MOSFET. The MOSFET's are controlled by using pulses depending on sampled sinusoidal Pulse Width Modulation (SPWM) technique with frequency ratio changing. Constant voltage to frequency (V/F) ratio is maintained through the program leading to constant flux speed range. The range of inverter output frequency is (0→50 Hz). This inverter output control the 3-ph induction motor speed. **Keywords:** MOSFET's, sinusoidal Pulse Width Modulation (SPWM) technique. **References:** 1. A.P. Malvino, "Digital computer electronics an introduction to microcomputers" second edition Mc. Graw- Hill Ine. 2008. 2. M. A. AL- Taee, "Microprocessor based 3- phase PWM waveform generator" proc. Of 11th Iraq scientific engineering conf. on electrical engineering Baghdad, 1993. 3. You Lee and Y. Yith Sum, "Adaptive harmonic control in PWM inverters with fluctuating input voltage", IEEE. Trans. Ind. Electron, Vol. IE-33, NO. 1, FEB. 2009. 4. S. Muruge San, "An overview of electric motor for space application", IEEE. Trans. Ind. Electron. Vol. IECI-28, NO. 4, Nov. 2007. 5. Bowes, S. R., and Midoun. A, "Microprocessor Implementation of new optimal PWM switching strategies", IEEE. Proc, Vol. 135, Pt.B, NO. 5, Sep. 1988. 6. M. Vaarnovisky, "A microcomputer based control signal generator for a three phase switching power inverter", IEEE transaction on industry application Vol. 19, NO. 2, march 1999. 7. Intel Corporation, "Microcontroller handbook", 2010. 8. Mohammed. H. B, "Variable dc input voltage source inverter based on microcontroller" MSc. Thesis, university of technology Baghdad, 2005.	**8-12**
3.	**Authors:**	**Atul Sureshpant Akotkar, Chaitali Choudhary**	
	Paper Title:	**Secure of Face Authentication using Visual Cryptography**	
	Abstract: Visual Cryptography is a process of creating shares from an Image so that it would becomes unreadable for intruder or unauthenticated person. There are various measures on which performance of visual cryptography scheme depends, such as pixel expansion, contrast, security, accuracy, computational complexity, share generated is meaningful or meaningless, type of secret image. This technique encrypts a secret image into shares such that stacking a sufficient number of shares reveals the secret image.This paper implements visual cryptography for color images in a biometric application. The project modules have a strong authentication and robustness scheme. In this project, face authentication scheme helps in achieving robustness by locating an image face from n input image. **Keywords:** Face Detection, Color Recovery, Visual Cryptography, Image Authentication, Pixel by Pixel Matching. **References:** 1. Arun Ross, Asem Othman, "Visual Cryptography for Biometric Privacy ",IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY , VOL.6 No.1, MARCH 2011. 2. P. S. Revenkar, W. Z. Gandhare, "Secure iris authentication using visual cryptography", IJCSIS,1947-5500,2010. 3. P. S. Revenkar, Anisa Anjum, W. Z. Gandhare, "Survey of Visual Cryptography Schemes", International Journal of Security and its Applictions, Vol.4, No.2, April 2010. 4. Wen-Pinn Fang, "Non-Expansion Visual Secret Sharing In Reversible Style", IJCSNS International Journal of Computer Science and Network Security, VOL.9 No.2, February 2009. 5. Daoshun Wang, FengYi, XiaoboLi, "On General Construction For Extended Visual Cryptography Schemes", Pattern Recognition 42 (2009),pp 3071 – 3082, 2009. 6. Jung-San Lee, T. Hoang Ngan Le, "Hybrid (2, N) Visual Secret Sharing Scheme For Color Images", 978-1- 4244-4568-4/09, IEEE, 2009. 7. Haibo Zhang, Xiaofei Wang, Wanhua Cao, Youpeng Huang , "Visual Cryptography For General Access Structure By Multi-Pixel Encoding With Variable Block Size", International Symposium on Knowledge Acquisition and Modeling, pp. 340-344, 2008. 8. F. Liu1, C.K. Wu X.J. Lin , "Colour Visual Cryptography Schemes", IET Information Security, vol. 2, No. 4, pp 151-165, 2008. 9. S. J. Shyu, S. Y. Huanga,Y. K. Lee, R. Z. Wang, and K. Chen,"Sharing multiple secrets in visual cryptography", Pattern Recognition, Vol. 40, Issue 12, pp. 3633 - 3651, 2007. 10. A. Jain and A. Ross, Handbook of Biometrics, Springer, 2007.	**13-15**
	Authors:	**K. Selvi, Rana Majumdar**	
	Paper Title:	**Six Sigma - Overview of DMAIC and DMADV**	
	Abstract: Six Sigma has been adopted by maximum of all the software development companies to identify the problems in software developments and its processes, to find optimal solutions for the problems identified, and improve the development processes so as to achieve company's business goals. An effective Six Sigma initiative can help a company to identify processes that truly add value and will move everyone and every activity closer to the customer and the customer's needs. In this paper a project is selected in order to prove that implementation of the six sigma improves the software quality by changes the existing process of the software development. **Keywords:** Optimal solutions for the problems identified, six sigma improves the software quality. **References:**	

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5.	**Authors:** **Madhuri Sharma, Parveen Kumar** **Paper Title:** **Research Areas in Cloud Computing** **Abstract:** Now days every organization is migrating towards cloud computing as cloud computing is considered being more flexible and scalable as compared to other technologies. The technology simply means to provide the computing resources and services through a network. Amazon EC2, yahoo emails, Gmail, Google connect are few of the examples of cloud computing. Since cloud technology is widely adapted issues with this technology must be focused very carefully. This paper overviews the major areas which must be explored in cloud computing. **Keywords:** Cloud Computing, Cloud security, Data Centers, Denial of service, Data Migration, Green Cloud, Scalability. **References:** 1. Lizhe Wang, Gregor von Laszewski, Andrew Younge, Xi He, Marcel Kunze, Jie Tao, and Cheng Fu (2008) "Cloud Computing: a Perspective Study." New Generation Computing 28, no. 2 pp: 137-146. 2. Wickremasinghe, Bhathiya, and Rajkumar Buyya. (2009) "CloudAnalyst: A CloudSim-based Tool for Modelling and Analysis of Large Scale Cloud Computing Environments." MEDC Project Report 22.6 3. Sriram, Ilango, and Ali Khajeh-Hosseini (2010) "Research agenda in cloud technologies." arXiv preprint arXiv:1001.3259. 4. Kapil Bakshi, (2011) "Considerations for cloud data centers: Framework, architecture and adoption." Aerospace Conference, IEEE. Version 2, pp 1-7 5. Feng-Seng Chu, Kwang-Cheng Chen and Chen-Mou Cheng "Toward Green Cloud Computing" ACM, February, 2011 6. A.M.Lonea, D.E.Popescu and H.Tianfield "Detecting DDoS Attacks in Cloud Computing Environment", ISSN Frbruary, 2013 pp-70-78 7. Rao, N. Mallikharjuna, C. Sasidhar, and V. Sathyendra Kumar. (2010) "Cloud computing through mobile-learning." (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 1, no. 6, pp: 42-47. 8. Hassan Zaki and Danish Jamil "Security Issues in Cloud Computing and Counter Measures", April,2011, Vol.3 pp 2672-2676 9. Hongwei Li, Yuanshun Dai, Ling Tian and Haomiao Yang "Identity- Based Authentication for Cloud Computing" ,2009 LNCS 5931,pp 157-166 10. Salim Bitam. (2012) "Bees Life Algorithm for job scheduling in cloud computing." International Conference on Computing and Information Technology. ICCIT, pp 186- 191 11. Samil Islam and Farah Habib Chanchary "Data Maigration: Connecting Databases in the Cloud" ICCIT 2012, pp: 450-455 12. Alaa Eldeen S Ahmed, Abdulwahab K Alsammak and Essam Algizawy. Article: A New Approach to Manage and Utilize Cloud Computing Underused Resources. International Journal of Computer Applications 76(11):29-36, 2013 13. Huang, Chun-Ying, "GamingAnywhere: An open cloud gaming system." Proceedings of the 4th ACM Multimedia Systems Conference. ACM, 2013. 14. Gwendal Simon, Catherine Rosenbery, Sharon Choy and Bernard Wong "The Brewing Storm in Cloud Gaming: A Measurement Study on Cloud to End-User Latency" IEEE, 2012. 15. Jerry Gao, Xiaoying Bai and Wei-Tek Tsai "Cloud Testing- Issues, Challenges, Need and Practice" SEIJ Vol. 1, No. 1, 2011 pp: 9-23 16. Aarti Singh, Manisha Malhotra, "Agent Based Framework for Scalability in Cloud Computing", ISSN 2229-3345 Vol. 3, No. 4, 2012, pp: 41-45	**20-23**
	Authors: **T. Sivaprsad, T. Krishnaiah, S. Timothy** **Paper Title:** **A Review on Modeling and Analysis of Composite Drive Shaft**	

6.

Abstract: This paper deals with modeling and analysis of composite drive shaft by replacing the conventional stainless steel with composite materials. The materials which use in this analysis were E-glass epoxy, high strength carbon epoxy, and high modulus carbon epoxy.Conventional drive shaft is a two piece steel drive shaft in order to make it as a single long continuous shaft we are using composite materials. Static, model and buckling analysis on these materials is done by using ANSYS software.

Keywords: E-glassepoxy, Specific modulus, Degrees of Freedom, Torque.

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24-26

7.

Authors: **Rajula Aravinda Reddy, J. C. Narayana Swamy, R. Govardhana Reddy**

Paper Title: **Detecting Embedded Devices using Network Discovery**

Abstract: Modern heterogeneous networks present a great challenge for network operators and engineers from a management and configuration perspective. The Network Discovery System is a network management framework that addresses these challenges. NDS offers centralized network configuration management functionality, along with providing options for extending the framework with additional features. The devices managed by NDS are stored in its Configuration Database (CDB). However, currently there is no mechanism for automatically adding network devices to the configuration of NDS, thus each device's management parameters have to be entered manually. The goal of this paper is to develop a software module for NDS that simplifies the process of initial NDS configuration by allowing NDS to automatically add network devices to the ND CDB. Apart from developing the software module for discovery, this paper aims to summarize existing methods and to develop new methods for automated discovery of network devices with the main focus on differentiating between different types of devices. A credential-based device discovery method was developed and utilized to make advantage of known credentials to access devices, which allows for more precise discovery compared to some other existing methods. The selected methods were implemented as a component of NDS to provide device discovery functionality. Python language is used as tool to develop code.

Keywords: Discovery Protocols Embedded Device Discovery, Embedded Device Configuration, Network Discovery System, Network Management.

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27-32

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8.

Authors: **Akshatha Prabhu K**

Paper Title: **Attack against Anonymous Network**

Abstract: This paper focuses on the active watermarking technique, which has been active in the past few years. This paper proposes a flow-marking scheme based on the direct sequence spread spectrum technique by utilizing a pseudo-noise code. By interfering with the rate of a suspect sender's traffic and marginally changing the traffic rate, the attacker can embed a secret spread-spectrum signal into the target traffic. The embedded signal is carried along with the target traffic from the sender to the receiver, so the investigator can recognize the corresponding communication relationship, tracing the messages despite the use of anonymous networks. However, in order to accurately confirm the anonymous communication relationship of users, the flow-marking scheme needs to embed a signal modulated by a relatively long length of PN code, and also the signal is embedded into the traffic flow rate variation. After the signal is embedded and delay is added between cells, we gone generate Mimo graph, it gives the probability of how much data is been extracted.

Keywords: Attack against TOR.

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33-36

9.

Authors: **Priyesh Pandya, Vikas Gupta**

Paper Title: **Enhancing Analog to Digital Converter Resolution Using Oversampling Technique**

Abstract: This paper is going to expose a method that gives us the possibility to use a low-resolution Successive Approximation Register (SAR) Analog-to-Digital Converter (ADC) in high resolution measurements. Oversampling and averaging can increase the resolution of a measurement without resorting to the cost and complexity of using expensive off-chip ADC's. This paper discusses about oversampling method for increase the resolution of a 12-bits ADC to 16-bits ADC. Oversampling method also rejects the noise by using averaging or moving averaging method. Oversampling method provides a software-based technique, resulting in an improved effective number of bits (ENOB) in the conversion result. It can be only used for measuring very low frequency or continuous signals, but the costs are lower compared to the price of the same high-resolution converter. This paper discusses how to increase the resolution of ADC measurements by oversampling and averaging. Additionally, more in-depth description on types of ADC, theory of oversampling technique and example code on utilizing oversampling and averaging.

Keywords: Analog to Digital Converter, Oversampling, Decimation.

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37-40

10.

Authors: **Anshu Anand Jethi, Ajay Rana**

Paper Title: **GSM Security**

Abstract: This paper demonstrates the secure communication in GSM. Global System for Mobile Communication (GSM) is a second generation cellular standard developed to provide voice services and data delivery using digital modulation. With its great features like providing access to users at anytime and anywhere, mobile communication is very attractive among the users as well as operators and service providers. But, in spite of of several advantages, mobile communication also has been facing many security problems. In 2G and 3G technologies viz GSM, GPRS and UMTS, the architecture comprises of mainly three nodes; the mobile station (MS), Visitor Location Register/Serving GPRS Support Node (VLR/SGSN), and Home Location Register/Authentication Center (HLR/AuC). These nodes are involved to encrypt/decrypt the data and authenticate the user

41-43

(MS) in GSM, GPRS and UMTS.

Keywords: GSM, GPRS and UMTS, (VLR/SGSN), (HLR/AuC).

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