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	References: 1. Jiao, S., Li, X., Conference on (V 2. Hu, J. L., Deng, computing, 2009	J. B., & Sui, M. X. (2009, August). "Color space conversion model from CMYK to LAB based on prism". In Granular , GRC'09. IEEE International Conference on (pp. 235-238). IEEE.	
	<ul> <li>Machine Vision a</li> <li>Jian, Y. U. (2010 Information Scientific Science)</li> <li>Mridula, J., Kum Image Segmentation</li> <li>Murugswari, G., Communication a</li> <li>NagaRaju, C., N Elements of Diff</li> </ul>	g, X., & Fu, H. (2010, April). "A Color-Texture Segmentation Method to Extract Tree Image in Complex Scene". In and Human-Machine Interface (MVHI), 2010 International Conference on (pp. 621-625). IEEE. 9, December). "Texture Image Segmentation Based on Gaussian Mixture Models and Gray Level Co-occurrence Matrix". In nce and Engineering (ISISE), 2010 International Symposium on (pp. 149-152). IEEE aar, K., &Patra, D. (2011, February). "Combining GLCM Features and Markov Random Field Model for Colour Textured ion". In Devices and Communications (ICDeCom), 2011 International Conference on (pp. 1-5). IEEE , &Suruliandi, A. (2011, March). "Comparative analysis of texture models for image segmentation."In Computer, and Electrical Technology (ICCCET), 2011 International Conference on (pp. 115-118).IEEE. agaMani, S., rakesh Prasad, G., &Sunitha, S. (2011). "Morphological Edge Detection Algorithm Based on Multi-Structure erent Directions". International Journal of Information and Communication Technology Research© 2010-11 IJICT Journal,	1-6
	<ul> <li>In World Automa</li> <li>Babu, U. R., Kun and Signal Proces</li> <li>Kezia, S., Prabhi International Jou</li> <li>Rafael C. Gonzal</li> <li>S SapnaVarshnee Segmentation." II</li> <li>Xu, Li, Qiong Yi (TOG) 31, no. 6</li> <li>Wang, Wenchen IEEE, 2013.</li> </ul>	g, and Miao Hua. "Extracting Dominant Textures in Real Time With Multi-Scale Hue-Saturation-Intensity Histograms."	
		and R. Benitta. "Texture classification using color local texture features." In Signal Processing Image Processing & Pattern IPR), International Conference on, pp. 220-223.IEEE, 2013.	
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	upstream CO2 se emissions. Microa USA. The experir sp was isolated fre ponds vs non flue – 4% (volume fre content. The maxi lipids content ran mitigation, enviro <b>Keywords:</b> Bio <b>References:</b> 1. Amit Kumar, Sar	Ilgae have high photosynthetic efficiency that can fix CO2 from the flue gas directly without any paration, and along with produce biomass for biofuels application and reduce greenhouse gas Ilgae studies were conducted in a batch mode experiments at Power plant, Jefferson city, Missouri, nents were conducted in different period (May to October, 2011) of time. The genus Scenedesmus om power plant habitat and used for this experiments and then comparative study done by flue gas gas treatment ponds. The microalga was cultured with different simulated flue gases containing 1% action) of CO2. The results show that Scenedesmus sp were grown very efficient at 2% CO2 mal biomass productivity and lipid productivity were obtained when aerating with 2% of CO2. The ged from 10 to 18 % of dry mass of biomass. Scenedesmus sp has a great potential for CO2 nmental tolerance and biodiesel production.	7-10
	<ol> <li>Chang EH, Yang 44:43–52.</li> <li>Chiara B, Inna K incises the riches</li> </ol>	g SS. 2003. Some characteristics of microalgae isolated in Taiwan for biofixation of carbon dioxide. Bot Bull Acad Sin Chozin G, Sammy B, Avigad V, Zvi C.2002.Lipid and fatty acid composition of the green oleaginous alga Pariotochloris t plant source of arachidonic acid. Phytochemistry 2002; 60(5):497–503. euchi T, Fukuju Y, Barnes DJ, Karube I 1992. Tolerance of microalgae to high CO2 and high-temperature. Phytochemistry	

	7. Sung KD, Lee JS Technology 68: 26	2004. Design parameters of solar concentrating systems for CO2 mitigating algal photobioreactors. Energy; 29:1651–7. 5, Shin CS, Park SC, Choi M J 1999. CO2 fixation by Chlorella sp. KR-1 and its cultural characteristics. Bioresource 59-273. nura N, Saiki H 1992. Isolation and determination of cultural- characteristics of microalgae which functions under CO2			
		ere. Energy Conversion and Management 33: 545-552. Abdulkadom Alyasiri, Jameel K Abed, Mohannad J Mnati			
	Paper Title:	Design and Implementation New Saving Energy System by Using Human Motion Sensor			
	Abstract: This w focus on the use .PIC16F84A micro and Lump) was co system, and Mikr Results of the syste microcontroller.	vork presents the design of a new electronic system to save electrical energy. In this design is to of low power digital IR motion sensors to perform human motion to voltage conversion pocntroller have been used to control the entire system. Three electrical devices (Televisions, Fan ontroller by this system. PROTEUS 8 professional software was used for simulating the designed oC software from MikroElektronika was used to programing the pic16F84A microcontroller. em design showed how to saving electrical energy by using human motion sensor and PIC16F84A g energy, PIC16f84A and human motion sensor.			
3.	<ul> <li>Conference on Inf</li> <li>2. Dr S S Adamu Grechnology (IJES</li> <li>3. Kang Bing, Liu F Conference on Int</li> <li>4. Yavuz EROL, Ha Intelligent Home?</li> <li>5. LIU Li-jun, LI Z Mechatronics, Coi</li> <li>6. Philip A. Adewuy of Engineering an</li> <li>7. Ankita Bharaktya and Advanced Tet</li> <li>8. Motion Sensor Be</li> <li>9. Jasio,L,D, Wilmss</li> <li>10. PIC16F84A Data</li> <li>11. LM78XX / LM78</li> <li>12. mikroC PRO for F</li> <li>13. Introduction</li> </ul>	nurst, T, Ibrahim, D, (2008), "PIC Microcontrollers: Know It All", 1st ed, UK, Elsevier Inc.	11-14		
	Authors:	Yogesh Kumar, Ashish Kumar Khandelwal, Sharda Pratap Shrivas			
	Paper Title:Abstract:The	A Study of Integrated Supply Chain Model purpose of this paper is to present the relationship between firm integration and supply chain			
	orientation and supporting technology as moderating that relationship between him integration and supply chain orientation and supporting technology as moderating that relationship. The term can be used to describe either functional management or project management-leading technical professionals who are working in the fields of product development, manufacturing, construction, design engineering, industrial engineering, technology, production, or any other field that employs personnel who perform an engineering function. This paper concludes that trust, serious relationships, and good communication between tour operators and other SC members could lead to more efficiency and effectiveness in tourism business.				
4.	Keywords: devel	lopment, manufacturing, construction, design engineering, industrial engineering, technology,			
	<ol> <li>2003.</li> <li>Ganeshan R. and I</li> <li>M.H. Hugos, Esse</li> <li>N.H. Moin and S publication, Augu</li> <li>Wikner, J., Towill 231-248.</li> <li>Norman, A, and International Journ</li> </ol>	<ul> <li>ply Chain Analysis Thinking- Systems," in Proceedings of the IEEE International Conference on Man and Cybernetics,</li> <li>Harrison T., "An Introduction to Supply Chain Management," http://silmaril.smeal.psu.edu/supply_chain_intro.html.</li> <li>entials of Supply Chain Management, John Wiley and Sons, 2006.</li> <li>S Salhi, "Inventory Routing Problems: a Logistical Overview", Journal Operational Research Society advance online st 2006.</li> <li>J. D.R. and Naim, M., Smoothing supply chain dynamics, International Journal of Production Economics, 1991, 22(3), pp.</li> <li>H Jansson, U., Ericsson's proactive supply chain risk management approach after a serious sub-supplier accident, nal of Physical Distribution &amp; Logistics Management, Vol. 34, No. 5, 2004, pp. 434-456.</li> <li>d Borghesi, A., Managing risks in the supply chain using the AHP method, The International Journal of Logistics</li> </ul>	15-17		
	Management, Vol	. 17, No. 1, 2006, pp. 114-136. st, J., and Chidambaram, V., A model for inbound supply risk analysis, Computers in Industry, Vol. 57, 2006, pp. 350–365.			
	Authors:	Nirmala. M, Palanisamy. V			
	Paper Title:	An Efficient Framework for Exploring Personal Pattern Mining and Prediction in Mobile Co	mmerce		
5.	portable devices, r their mobile device location acquisitio trajectory, which r	he rapid advance of wireless communication technology and the increasing popularity of powerful mobile users not only can access worldwide information from anywhere at any time but also use tes to make business transactions easily, e.g., via digital wallet. Meanwhile, the availability of n technology, e.g., Global Positioning System (GPS), facilitates easy acquisition of a moving records a user movement history. We propose a novel framework namely, Mobile Commerce framework consists of three major components: 1) Similarity Model (SM) for measuring the	18-22		

similarities among stores and items, which are two basic mobile commerce entities 2) Mobile Commerce Pattern Mine (MCPM) algorithm for efficient discovery of mobile users' Personal Mobile Commerce Patterns 3) Mobile Commerce User Behavior Predictor (MCUBP) for prediction of possible mobile user behaviors. We perform an extensive experimental evaluation by simulation and show that our proposals to produce excellent results.

Keywords: Association rule mining, Data mining, Mobile commerce, Pattern mining and prediction.

#### **References:**

- R. Agrawal , T. Imielinski, and A. Swami, "Mining Association Rule between Sets of Items in Large Databases," Proc. ACM SIGMOD 1. Conf. Management of Data, pp. 207-216, May 1993.W.-K. Chen, Linear Networks and Systems (Book style). Belmont. Wadsworth, 1993, pp. 123-135.
- 2
- R. Agrawal and R. Srikant, "Fast Algorithm for Mining Association Rules," Proc. Int'l Conf. Very Large Databases, pp. 478-499, Sept 1994. J. Han, J. Pei, and Y. Yin, "Mining Frequent Patterns without Candidate Generation," Proc. ACM SIGMOD Conf. Management of Data, pp. 3 1-12, May 2000.
- 4 V.S. Tseng and W.C. Lin, "Mining Sequential Mobile Access Patterns Efficiently in Mobile Web Systems," Proc. Int'l Conf. Advanced Information Networking and Applications, pp. 867-871, Mar. 2005.
- R. Agrawal and R. Srikant, "Mining Sequential Patterns," Proc.Int'l Conf. Data Eng., pp. 3-14, Mar. 1995. 5
- D. Xin, J. Han, X. Yan, and H. Cheng, "Mining Compressed Frequent-Pattern Sets," Proc. Int'l Conf. Very Large Data Bases, pp. 709-720, 6. Aug. 2005.
- 7. S. C. Lee, J. Paik, J. Ok, I. Song, and U.M. Kim, "Efficient Mining of User Behaviors by Temporal Mobile Access Patterns," Int'l J. Computer Science Security, vol. 7, no. 2, pp. 285-291, Feb. 2007.

	V.S. Tseng, H.C. Lu, and C.H. Huang, "Mining Temporal Mobile Sequential Patterns in Location-Based Service Environments," Proc. Int'l
	Conf. Parallel and Distributed Systems, pp. 1-8, Dec. 2007.
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Authors:	Majid S. Naghmash, Hazim Salah Abdulsatar, Tahseen Flaih Hasan
Paper Title:	Reconfigurable Down Sampling Channelizer for SDR Receiver Using FPGA

This paper presents, the design and implementation of reconfigurable down sampling the IF band Abstract: frequency to baseband in Software Defined Radio (SDR) receiver. To enhance both the integration and adaptation of multiple communication standards like GSM, CDMA and WCDM systems, the selection of channel in SDR technology require to achieve relaxing on chip at baseband. The wireless and mobile systems classically utilize a channelizer to extract the desired band for more processing in baseband. Down conversion in frequency domain requires less computation and complexity to provide the idea of minimum power consumption as current user demand. In the low power design and efficient FPGA area implementation, the cascaded digital filter structure is required to convene multi standards specifications in wide and narrow band systems. Many type of digital filter has been decomposition to implement this filter as well as a lot of software from Mathworks and Xilinx is used. A number of experiments and investigation are given to estimate the results of FPGA design for filter structure. The nonappearance of error in the design steps shows an important improvements in the filter implementation results to enhance the conventional design.

Keywords: Reconfigurable filter, Down Sampling, SDR Receiver, FPGA

#### **References:**

6.

- Rajesh and Pattnaik, "Reconfigurable Design of GSM Digital down Converter for Enhanced Resource Utilization", International Journal 1. of Computer Applications (0975 - 8887) Volume 57 - No.11, November 2013
- Santhosh Y. N., et al., "Design and VLSI Implementation of interpolators/decimators for DUC/DDC", Third International Conference on 2. Emerging Trends in Engineering and Technology, IEEE, 978-0-7695-4246-1/10, 2010
- 3. Rajesh Mehra, Swapna Devi' "Efficient Hardware Co-Simulation of Down Convertor for Wireless Communication Systems" International Journal of VLSI Design & Communication Systems (VLSICS), pp. 13-21, Vol.1, No.2, June 2010.
- Majid Salal Naghmash and Mohd Fadzil Ain "Design of minimum error digital down-converter (DDC) for GSM mask requirements", 4 Journal of Engineering and Technology Research Vol.1 (5), pp.091-101, August, 2009. Kyung-ho Hwang and Dong-ho Cho, "Software Defined Radio Technology," Telecommunications Review, vol . 10, no. 1, pp. 130-143,
- 5. Jan/Feb. 2000,
- Rajesh Mehra, Dr. Swapna Devi, "FPGA Based Design of an Optimized Digital Down Converter for Software Radio Wireless 6 Applications" Innovative Conference on Embedded Systems, Mobile Communication and Computing, pp. 43-51, ICEMC2-2010.
- Young-bum Chang, "A Block FIR Filtering Architecture for IF Digital Down Converter," Journal of IEEK, vol. 37, no. 9, , pp. 465-473. 7. Sept. 2000
- 8 LÎN Fei-yu1, QIAO Wei-ming, WANG Yan-yu, LIU Tai-lian1, FAN Jin, HANG Jian-chuan, "Efficient WCDMA Digital Down Converter Design Using System Generator". Proceeding of International Conference on Space Science and Communication, pp.89-92, IEEE-2009.
- S. Im, W. Lee, C. Kim, Y. Shin, S.H. Lee, and J. Chung, "Implement of SDR-Based Digital IF Channelizer / De channelizer for Multiple CDMA Signals," IEICE Trans. Communications, vol. 83, no. 6, pp. 1282-1289. June 2000 9
- 10. Alan Y. Kwentus, "Application of Filter Sharpenning to Cascaded Integrator-Comb Decimation Filters," IEEE, vol. 45, no. 2, pp. 457-467. Feb. 1997
- Emad S Malik, Khaled A. Shehata, Ahmad H. Madian, "Design of Triple Mode Digital Down Coverter for WCDMA, CDMA 2000 and 11. GSM of Software Defined Radios" International Conference on Microelectronics, pp. 272-275, IEEE-2009.
- 12. Hyuk J. Oh, Sunbin Kim, and Ginkyu Choi, "On the Use of Interpolated Second-Order Polynomials for Efficient Filter Design in Programmable Downconversion," IEEE J. Select. Areas Commun., vol. 17, no. 4, , pp. 551-560., Apr. 1999
- G. Mazzini, G. Setti, and R. Rovatti, "Chip pulse shaping in asynchronous chaos-based DS-CDMA," IEEE Trans. Circuits Syst. I, vol. 54, 13. no. 10, pp. 2299-2314, Oct. 2007.
- Amir Beygi, Ali Mohammadi, Adib Abrishamifar. "AN FPGA-BASED IRRATIONAL DECIMATOR FOR DIGITAL RECEIVERS" in 14. 9th IEEE International Symposium on Signal Processing and its Applications, pp. 1-4, ISSPA-2007.
- Ming Jian, Weng Ho Yung, and Bai Songrong, "An Efficient IF Architecture for Dual-Mode GSM/W-CDMA Receiver of a Software 15. Radio," IEEE Int'l Workshop on Mobile Multimedia Communications, vol. 87932, , pp. 21-24. Nov. 1999 M. Cummings, S. Haruyama, "FPGA in the Software Radio". IEEE Communications Magazine, v37, pp.108-112. Feb. 1999
- 16.
- Rabiner, Crochiere, Optimum FIR Digital Filter Implementations for Decimation , Interpolation, and Narrow-Band Filtering, IEEE 17. Transactions on Acoustics, Speech, and Signal Processing, October 1975.
- 18. Rajesh Mehra, Dr. Swapna Devi, "FPGA Based Design of an Optimized Digital Down Converter for Software Radio Wireless Applications" Innovative Conference on Embedded Systems, Mobile Communication and Computing, pp. 43-51, ICEMC2-2010.
- 19 Xilinx Corp., Virtex-4 Xtreme DSP Design Considerations User Guide, 2008

23-27

21. Xilinx Corp., Sy	DS Compiler v2.1, 2008 stem Generator User Guide,2008	
22. Xilinx Corp., Xi Authors:	linx ISE 10.1 Software Manuals, 2008. Arjan Fakhraldin Abdullah, Mazin Burhan Adeen, Alya'a Abbas Al-Attar	
	Studying Flexural Behavior of Reinforced Fibrous Self- Compacted Concrete T- Beams Stre	ngthened
<ul> <li>materials and reinfit types of fiber (Stacompacted reinford steel and nylon file strength and flexue self-compacting we hybrid fiber. Also (CFRP), and find a concrete beams. The concrete it has shown reducing deflection fibers lead to a slip addition of these for atios lead to a slip addition of these for concrete beams.</li> <li>Keywords: Fiber</li> <li>References: <ol> <li>Nagamoto N., Concrete Institute</li> <li>Khan A. R., "Reperences:</li> <li>Nagamoto N., Concrete Institute</li> <li>Khan A. R., "Reperences:</li> <li>Schanerch D., Statistication of the set of the structures", Depa</li> <li>Al-Mahaidi, R.; Laminates, "Structures", Structures, St</li></ol></li></ul>	with CFRP SHEETS search Studies the possibility of producing self-compacting concrete (SCC) containing Pozzolanic forced with different types of fibers , 11% (by weight of cement) of silica fume were used and two eel, Nylon) with different volume fraction , also it studies the structural behavior of the self- reced T-section beams. The current study includes a practical program considers the effect of adding bers to structural behavior of T- section self-compacting concrete such as compressive and tensile ral behavior represent by load-deflection curves, variables that which studied after obtaining the ras the volumetric ratios of fibers which used (0.2, 0.3 and 0.4) % ratios for steel and nylon and o Rehabilitate the T- beams after failure in bending by strengthened it with carbon fiber strips but the effect of external strengthening by CFRP on the flexural resistance of concrete & reinforced he practical results of the current study indicated that when adding steel fiber to the self-compacted own a good effect of the increase in compressive, tensile and flexural strength, also it has effect of n, this effect increasing by increase of the volumetric ratio of steel fiber. while adding of nylon glut increase in compressive strength and this effect decrease by fiber content increasing and the fibers lead to a small increase in the tensile and bending strength , also adding hybrid fiber in all improvement in hardened properties of self-compacted concrete . The results of repair by beams with carbon sheets indicated that the carbon fibers had a noticeable effect in increasing the 1 beams and testing results showed that the flexural strength increased between (6.42% - 29.62%) s, and between (9%-33%) for rehabilitated damaged concrete beams. rs self-compact Concrete, Flexural Strength, CFRP, and Epoxy.	28-38
Authors:	Annu Pandey, Y.K.Bind	
	Effects of Oil Contamination on Geotechnical Properties of Alluvial Soil Naini, Allahabad	
engine oil in areas hydrocarbons pres hydrocarbons infil hydrocarbon gets major tasks need to clean-up works, at and behavior of c engine oil-contami weight of samples limits. The compa decreasing as a rea the value of OMC geotechnical prope these results will b of contaminated so <b>Keywords:</b> Hyd	ontamination by engine oil basically takes place due to spilling from vehicles or discarding of used near garages or service stations. This contamination causes huge damage to the environment. The sent in the oil influences the quality and physical properties of oil contaminated soil. These trate into the soil through pore spaces and collect at the top of the ground level. A fraction of this trapped and clog within pore space, which is cumbersome to remove and costly to clean .Some o be performed for remediation and reclamation of contaminated area .Also, in connection with the nd for any possible application of contaminated soil, a knowledge of the geotechnical properties ontaminated soils is required. This study aimed to investigate the compaction characteristics of inated alluvial soil. The amount of oil added to soil was varied at 0%,4%,8% and 12% of the dried . Results showed that the oil contamination decreased the liquid limit , plastic limit and shrinkage action characteristics were also affected to a great extent. The MDD value was found to be sult of increasing amount of added engine oil into the soil. A similar behavior was observed with with increasing engine oil content, which means that the addition of oil has adverse effects to the erties of the studied soil. Contaminated residual soils might be used for geotechnical purposes and be used for geotechnical purposes and will benefit engineers or researchers in recycling or re-using bils	39-42
]	of contaminated so Keywords: Hyd References:	of contaminated soils <b>Keywords:</b> Hydrocarbons, oil contaminated soil, petroleum products, remediation, reclamation.

2.

Publication.No.45 16. In Situ Bioreclamation: Application and Investigations for Hydrocarbon and Contaminated Site Remediation. Ed. by Hinchee, R.E. and O1

fen buttel, R.F. Butterworth-Heinemann. London. pp. 125-142.

- Dineen. D., Slater, J.P., Jicks, P. and Holland, 1. (1990). In situ biological remediation of petroleum hydrocarbons in unsaturated soils. Hydrocarbon Contaminated Soil and Ground Water : Analysis, Fate, Environmental and Public Health Effects, Remediation. Ed by Kostecki, P.T. and Calabrese, E. J. Vol. 1. Lewis Publishers, Chelsea, Mich., pp. 177-187.
- 4. Custance, S. and Ruth, M.P. (1992). Environmental fate of the chemical mixtures: crude oil, JP-5, mineral spirits, and diesel fuel. Journal of Soil Contamination. 1 (4): 379-386.
- O. Samira, G. Gerard, and R. Waleed, "Types and extent of soil contamination in greater Al-Burqan oil field, Kuwait", Kuwait: s.n:2006, Kuwait Journal of Science and Engineering, vol. 33, pp. 89-99.
- 6. Gr&, K. and Kriston, E. (1995). In situ bioremediation of hydrocarbon in soil. Journal of Soil Contamination . 4(2): 163-173.
- 7. Wroth, C. P. and Wood, D. M. (1978)."The correlation of Index Properties with Some Basic Engineering Properties of Soils." Canadian Geotechnical Journal, 15, 137-145.
- 8. Blight, G.E. 1997. Mechanics of Residual Soils: A guide to the formation, classification and geotechnical properties of residual soils, with advice for geotechnical design. Rotterdam, The Netherland: Balkema Publishers.
- ASTM. (1996a). Standard test method for particle size analysis of soils (D422-63). In 1996 Annual book of ASTM stondardî. Sec. 8, Vol. 4, ASTM, Philadelphia, pp. 10-20.
   De Jata analysis of soils (D422-63). In 1996 Annual book of ASTM stondardî. Sec. 8, Vol. 4, ASTM, Philadelphia, pp. 10-20.
- Rahman,Z.A., U.Hamazah, M.R.Taha ,N.S.Ithnain and Ahmad,2010."Influence of oil contamination on Geotechnical Properties of Basaltic soil."Am.J.applied sci.,&:7
- 11. Khamehchiyan, M., Charkhabi, A.M. & Tajik, M. 2007. Effects of crude oil contamination on geotechnical properties of clayey and sandy soils. Eng. Geol. 89: 220-229.
- 12. Mercer J.W., Cohen R.M. (1990):"A review of immiscible fluids in the subsurfaces: Properties; models; characterization and remediation. J. contamin. Hydrogeol. 6, 107-163.
- ASTM. (1996b). Test method for laboratory compaction characteristics of soil using standardeffort (D689-91). In 1996 Annual book of ASTM standards. Sec. 8, Vol. 4, ASTM, Philadelphia, pp.75-82.
- Shin, E.C. and Das, M.D. (2001). "Bearing capacity of unsaturated oil-contaminated sand. International Journal of Offshore and Polar Engineering, Vol. 11, No. 3.

Authors:	Haque Nawaz, Himat Ali	
Paper Title:	Gear Measurement Using Image Processing in Matlab	

**Abstract:** In this paper gear Measurement has been carried out by focusing two features of gear image object. The problems are to measure the gear features of gear image object, in the sense the measurement of the Area of the gear image object and as well the teeth of the gear will be counted. We have used Matlab tool and development code which overcome these problems and measured the area as well as teeth of the gear image object counted. To accomplish this task we have measured five different gear image objects area and counted the teeth by using image processing. The experimental results and statistics have been shown in this paper.

Keywords: Gear, Measurement, Image Processing

#### 9. References:

- 1. Zhang Jing "The Research on the Application to Digital Image Technology in Hypoid Gear Contact Zone Detection", College of Computer Science & Technology, Henan Polytechnic University, Jiaozuo, China. 43-47
- Fred B. Oswald and Dennis P. Townsend "Dynamic Forces in Spur Gears Measurement, Prediction, and Code Validation" Lewis Research Center Cleveland, Ohio Brian Rebbechi DSTO, Aeronautical and Maritime Research Laboratory Melbourne, Australia
- Joel M. Esposito, Matthew G. Feemster, and John M. Watkins" Role of a MATLAB Real-time Hardware Interface With in a Systems Modeling Course" United States Naval Academy Weapons & Systems Engineering department, Mail Stop 14A, 105 Maryland Ave., Annapolis, MD 21402-5034
- Sören Sjöberg "On the running-in of gears" Department of Machine Design Royal Institute of Technology SE-100 44 Stockholm TRITA MMK 2010:03
- 5. Shrikant J. Honade "Height, Weight and Body Mass index measurement using Matlab" Dept. of Electronics & Telecommunication, G. H. R. C. E. M., Amravati, S. G. B. A. U., Amravati, India
- J. Caja, E. Gómez, C. Barajas, P. Maresca, M. Berzal "Alternative Method for the Metrological Characterization of Spur Gears in the Sub-Millimeter Range Using Optical Equipment" Departament of de Mecánica Industrial - Universidad Politécnica de Madrid Ronda de Valencia, 3 - 28012 Madrid – España

7. Arashiro, Maiko, and David Leith. "Precision of PM measurements with the UNC passive aerosol sampler", Journal of Aerosol Science, 201		
Authors:	M. Shahjahan, N. A. Ahmed, S. N. Rahman, S. Islam, N. Khatun, M. S. Hossain	
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# Paper Title: Structural and Electrical Characterization of Li-Zn Ferrites

Abstract: Four ferrite samples of Li0.5xFe0.5xZn1-xFe2O4, where x= 0.6, 0.7, 0.8, 0.9 were prepared by conventional ceramic method. The dc electrical resistivity as a function of temperature has been studied and found to decrease with the increase in temperature. The Curie temperature (Tc) has been found to increase as the Zn content decreases from x=0.6 to x=0.8. But for the sample where x=0.9 the Curie temperature is less than that of the sample where x=0.8. The ac electrical conductivity ( $\Box$  ac), dielectric constant ( $\Box$ ), the dielectric loss tangent (tan $\Box$ ) and quality control factor (Q-factor) as a function of frequency have also been studied. The experimental results indicate that for the first three samples the ac electrical conductivity ( $\Box$  ac) decreases with the increase in frequency up to 200 KHz and afterwards it increases with the increase in frequency. It has been found that with the increase in frequency the dielectric constant ( $\Box$ ) and dielectric loss tangent (tan $\Box$ ) decrease while the quality factor (Qfactor) and ac conductivity

48-52

Keywords: Conventional Ceramic, Electrical Properties, Lithium Zinc, Surface Morphology.

#### **References:**

increases.

10.

- Abdullah M H, Yusoff AN, "Frequency dependence of the complex impedances and dielectric behaviour of some Mg-Zn ferrites" Journal of Materials Science Vol. 32, Issue.21, 11-1997, pp 5817-5823.
- 2. El Hitti M A, "Dielectric behavior and ac electrical conductivity of Zn substituted Ni-Mg ferrites" Journal of Magnetism and Magnetic Materials, Vol.164, issue 1-2, 11-1996, pp.187-196
- Suryavanshi S. S, Kabbur S. M, Deshmukh U.B, Sawant S.R "Complex permeability studies of Li1+ substituted Cu-Zn ferrites" Journal of Electronic Materials, Vol.29, No.7, Jul 2000, pp. 979-983

territe," Journal of Magnetism and Magnetis Materials, vol. 182, no. 1–2, 1998, pp. 199–206.     Sumtime Phanosham & Chandra prakeh "Structural properties and all creasitivity of 1–2. 2. The Ferrite" Condensed Matter Physics, Statistical Physics, and Applied Physics, "Vol. 16, No. 27 (2002), pp. 1027–1039.     Youngy Maddy P. and Wangelland, Physic Difference hadrowing of integel Livel ferrites at low frequencies "Journal of the Less Common      Youngy Val Surg, Michael S, Grinolds Pavol Krivosit and Carl F, Pron. "Phased laser deposited single-crystal 12 <i>n</i> -forcite films with low      microwave lows" Journal of Applied Physics, Vol. 39, 1993. Difference hadrowing 2005, pp. 1035-102.     N. Redesa & B. Rezless, "The Influence of Additives on the Material Parameters of Li-2n ferrites" hadrom for Magnetism      More Physics, Vol. 31, 1995, pp. 54-77.     Issue 21, 2005, pp. 551-567.     Issue 21, 2005, pp. 551-577.     Issue 21, 2005, pp. 51-577.     I			a, and R.G. Mendiratta, Proc. ICF-6, New Delhi, India, 1989, pp. 353-357.			
6 Samits Phagodan & Chanda pakad, "Sinctural properties and d creations of L. 24-Ti Ferrite" Command Mathr Physics, Sinsteinal Physics and Applied Physics, Vol. 56, No. 27 (2009), 1007-1600.     7 Vone; Von Sey, Monte S. (2009), 1027-1600.     7 Vone; Von Sey, Monte S. (2009), 1021-1021.     7 Vone;						
1. Vingopil Eddy P. and Schapi Rez. T. Vielectric behaviour of mixed L-Ni Foreis at low frequesties "Journal of the Less Common Meaks acks [hg] Neg. 27: 55-56.     1. Vielectric J. Vielectric J. Vielectric J. Analysis of Carachea and Schaperson LiZa-Foreis fram with low Neglex ack F. Ersteins I. The Infrarest of Additives on the Murrel Parmeters of LiZa-Foreis (Journal Journal Journ		6. Sumitra Phanjoub	an & Chandra prakash "Structural properties and d.c resistivity of Li- Zn-Ti Ferrites" Condensed Matter Physics; Statistical			
Math.; vid S., jub 202; p 25:301         Wath.; vid S., jub 202; p 25:301         Wath.; vid S., jub 202; p 25:301           S. Yong, Yud, S. Sog, Madda Z., Gondolk, Pool Kritonik and Carl E, Pron, "Pulsed Injoint," physica satus soluti (a) Vol 147; base 2.0 pp 455:302         Consolution of Applied Physics, Vol 179; part 252:232-236           B. Cock emargh, John T, Chernes J, Maltenikow of e Maxima Marghan Physics, Vol 199; pp 55:3562         Math.; S. Yag, Karnes T, Detanti, Makawa M, Satawa M, Sa						
Second Seco						
<ul> <li>N. Robeck &amp; E. Robeck The Influence of Additives on the Matchi Planmetes of Li-Zn Fertics" physics 1943 (p. 92.142.214)</li> <li>Good enough, BM, 'C. Merical Information Space 10.11 (org." Journal of Appled Physics, Vol. 31, 1965, pp.2142.2146</li> <li>Good enough, BM, 'C. Merical Information The fertice: behaviour of enough abstituted Mice.2. Retriet: Balletia of Matchia Science - Vol. 12, 199, pp. 505-507</li> <li>Radak K and Ravinde D. Trequency and composition dependence of delectric behavior of mixed L-Cd fertics'' Induit Journal of Pare and Applied Physics, Vol. 13, 198, pp. 24-37.</li> <li>Instati, K. Dieterne: Properties of Fend Paricles of Fe3O4 and Some Ferties'/Papanee Journal of Applied Physics, vol. 10, 1971, pp. 14-4.</li> <li>A Stati, K. Dieterne: Properties of Fend Paricles of Fe3O4 and Some Ferties'/Papanee Journal of Applied Physics, vol. 10, 1971, pp. 14-4.</li> <li>Anthors: R. S. Pavars, S. H. Sawanit</li> <li>Authors: R. S. Pavars, S. H. Sawanit</li> <li>Authors: R. S. Pavars, S. H. Sawanit</li> <li>Authors: R. S. Pavars, S. H. Sawanit</li> <li>Astract: A beam is an clongated member, usually slender, intended to resist lateral loads by bending: These beam-like structures are typically subjected to dynamic loads. Therefore, the vibration of beams is to particular interests to the engineer. This paper tries to focuses in the study of the vibration and physics of Paricular interests to the engineer. This paper tries to focuses in the study of the vibration of a sially moving beam.</li> <li>References: Retrieve Mechanics of Materials, Pontations of axially moving beam.</li> <li>References: Retrieve Mechanics of Materials, Pontations of axially moving beam.</li> <li>References: Retrieve Mechanics of Materials, Pontations of axially moving beam at Harbarat of Cold Cantilever Beam with Non-linear rites and Harmonic Excitations and Parisonal Applied Beams, Modal Analysis, of Canabeet Retrins and Harbaratin Cold Cantilever Beam, Non-li</li></ul>		8. Young-Yeal Song	, Michael S, Grinolds, Pavol Krivosik and Carl E, Ptton, "Pulsed laser-deposited single-crystal LiZn-ferrite films with low			
11. D Evride & K. Vigity Kumer       "Dielectric behaviour of erboin substanted Min-Za ferrite" Bulletin of Materials Science , Vel. 23(0): pp. 695-59.         12. Radiu K and Revioul 7: 50: pp. 71-75.       Andrew K and Revioul 7: 50: pp. 71-75.         13. Nearch K. "Dielectric Properties of Time Particles of Field and Some Ferrites" Agences Journal of Applied Physics, vol. 10, 1971, pp. 1320-1323.         14. AA.Starr, H.M.El-Seydt, W.R.Agami, and A.G.Bani. "Magnetic properties and electrical resistivity of [Zr.sap.4+] substanted Li-Zn territe" American Journal of Applied Science, vol. 4 laucz Febe, 2007, pp. 9-9-9.         Authors:       R.S. Pavars, S. H. Sawant         Paper Title:       An Overview of Vibration Analysis of Cracked Cantiflever Ream with Non-Linear Parameters and Harmonic excitations.         Abstract:       Abstract: A beam is an clongated member, usually selender, intended to resist lateral loads by bending. These beam-like structures are typically subjected to dynamic loads. Therefore, the vibration of beams is of particular interest to the engineer. This paper trics to focuses in the study of the vibration analysis of cracked cantilever beam by theoretical, numerical and experimental Amethods.         Keywords:       Cracked simply supported beam, Cracked Cantilever Beam with Non-Linear Parameters and Harmonic Excitation, Free Vibration and Heating of Materia, Bratine Mathana Using Madal Analysis", Asian Journal of Credit Cantilever Beam, Non-Linear Parameters and Harmonic Excitation and Elastic Buckling beams, Modal Analysis of beams with different materials, Rotating Cantilever Beam, Non-Linear Parameters and Harmonic Excitations and Elastic Buckling beams, Modal Analysis of Sonany Sou 2000.		9. N. Rezlescu & E. Issue.2.1995, pp-5	. Rezlescu "The Influence of Additives on the Material Parameters of Li-Zn Ferrites" physica status solidi (a) Vol. 147, 553-562.			
12. Ratha K and Ravinder D "Programmed composition dependence of delectric behavior of mixed 11-Cd ferrite" balance and of Applied Physics, Vol. 31, 1995, pp. 74-77.         13. Investeluk, C Delectric Properties of Fine Particles of FeOO4 and Some Ferrites' Tagnance Journal of Applied Physics, Vol. 31, 1995, pp. 74-77.         14. An Staim, MUL E-Sore WR. Agam. and A AChian, "Magnetic properties upper tend electrical resistavity of [Zzaq:4+] substituted Li-Za lemits'. American Journal of Applied Science, vol. 4 Issue 2 Peb. 2007, pp. 99-93.         Authors:       R. S. Pravar, S. H. Sawant         Paper Title:       An Overview of Vibration Analysis of Cracked Cantilever Beam with Non-Linear Parameters and Harmonic Excitations.         Abstract: A beam is an elongaled member, usually slender, intended to resist lateral loads by bending. These beam-like structures are typically subjected to dynamic loads. Therefore, the vibration and psics of cracked cantilever beam by theoretical, numerical and experimental methods.         Keywords:       Cracked simply supported beam, Cracked Cantilever Beam with Non-linear Parameters and Harmonic Excitations.         References:       1. Cock, M.J., and Young, W.C., Advanced Mecking beams, Modal Analysis of beams with different materials, Rotating Cantilever Beam, Non-linearities in Cracked cantilever beam, Vibrations of axially moving beam.         14.       References:       1. Cock, M.J., and Young, W.C., Advanced Meckanics' John Wiley & Son, Aevy Vrk, 2003.         3       D karb Maraul And JR Science, M.J., and Wold, Analysis of Cantilever Beams, Alabaran Science and Cantilever Beams, Alabara Science Analyson Alabaran Science Analysis of Atating C		11. D Ravinder &	K Vijay Kumer "Dielectric behaviour of erbium substituted Mn-Zn ferrites" Bulletin of Materials Science ,			
13. bisudeLK "Disclostics Properties" of The Particles of FeOde and Some Ferrites" Japances Journal of Applied Physics, vol. 10, 1971, pp. 1153-1538.         14. AA.Sattra, H.M.El-Skyed, W.R.Agami, and A.A.Ghan, "Magnetic properties and electrical resistivity of [Z.sup.4+] substituted Li-Zu term?. Anonical Neuroni Applied Science, vol. 4, 16aau 2 Feb, 2007, pp. 95-93.         Authors:       R.S. Pawar, S. H. Sawarat         Paper Title:       An Overview of Vibration Analysis of Cracked Cantilever Beam with Non-Linear Parameters and Harmonic Excitations         Abstract: A beam is an clongated member, usually dender, intended to resist lateral loads by bending. These beam-like structures are typically subjected to dynamic loads. Therefore, the vibration and pissis of Cracked cantilever beam subjected to free and harmonic excitation at the base. The objective of the study of be vibration and pissis of cracked cantilever beam subjected to free and harmonic excitation and Elastic Buckling beams, Modal Analysis of beams with different materials, Rotating Cantilever Beam, Non-linear Thear and Nonlinear Structure Mechanics is of Analysis of Carked Cantilever Beam, Non-linear Thear and Nonlinear Structure Mechanics in Carked Vanily moving beam.         14.       References:       1.         15.       1.       Conk, R.D., and Yang, W.C., Advanced Machanics of Materials, Prentice Hall, New Jersey, 1999       3.         2.       1.       Markan D R. Selaw, "A study on Drawins Contacteristics of Status Hays of a Curture Beam, Status Webender, Schwineard Markana Linky Status, Barage Makel, 2007, Markana Markan D R. Selaw, Three Status, Carked Cantilever Beam, a Laboratory Projecto Intordace Gaveretic Nonlinear Machanics of Materials,		12. Radha K and Ravi	inder D "Frequency and composition dependence of dielectric behavior of mixed Li-Cd ferrites" Indian Journal of Pure and			
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11.       References:       53-55         1.       Cook, R.D., and Young, W.C., Advanced Mechanics of Materials, Prentice Hall, New Jersey, 1999       53-55         2.       Nayfeh, A.H., and Pa, P.F., "Linear and Nonlinear Structure Mechanics", John Wiley & Sons, New York, 2003.       53-55         3.       D. Rav Prasad and D.R. Seshu, "A study on Dynamic Characteristics of Structural Materials Using Modal Analysis", Asian Journal of Civil Engineering, Volume 9, Number 2, Pages 141-152, 2008.       54-177.         3.       H. Hyoo and S.H. Shun, "A study on Dynamic Characteristics of Structural Materials Using Modal Analysis", Asian Journal of Civil Engineering, Volume 9, Number 2, Pages 141-152, 2008.       54-179.         6.       Mousa Rezue and Reza Hassannejad, "Damped Free Vibration Analysis of a Cantilever Beam: at Laboratory Project to Introduce Geometric Nonlinearity in Mechanics of Materials", International Journal of Engineering, Volum 9, Numbris of Rotating Euler Beams and High Angular Velocity", Dept. of Mechanical Engineering, National Characteristics (66, June, 2010.       56.19.         7.       Chin Ling Huang, Wen Yi Lin, Luo Mo fisio, "Free Vibration Analysis of Rotating Euler Beams and High Angular Velocity", Dept. of Mechanical Engineering, National Characteristics (66, June, 2010.       51.         8.       H. Ding, G.C. Zhang, LQ Chen, "Supercritical Vibration of Non-Innear Coupled Moving Beams based on Discrete Fourier Transform", International Journal of Nonlinear Networks, Juniar Maxima 14 Nov. 2005.       51.         9.       Liao- Liang Ko, Jie Yang, Sritawat Kilipornchai, Yanghi Xiang, "Flexural						
References:       1.       Cook, R.D., and Young, W.C., Advanced Mechanics of Materials, Prentice Hall, New Jersey, 1999       53-55         1.       Cook, R.D., and Young, W.C., Advanced Mechanics of Materials, Prentice Hall, New Jersey, 1999       53-55         2.       Naytch, A.H., and Pai, P.F., "Linear and Nonlinear Structure Mechanics", John Wiley & Sons, New York, 2003.       53-55         3.       D. Ravi Prasad and D.R. Sesh., "A study on Dynamic Characteristics of Structural Materials Yings Modal Analysis", Asian Journal of Civil Engineering, Volume 9, Number 2, Tages 141-152, 2008.       53-55         4.       Tarsiciobeleindez, Cristianteipp and Augusto beleindez, "Numerical and Experimental Analysis of Catiliver Beam: a Laboratory Project to Introduce Geometric Nonlinearing, "International Journal of Sound & Vibration, Pages 807-583, 12 Dec. 1997.       64         6.       Muss Rezaee and Reza Hassanejad, "Damped Free Vibration Analysis of Rotating Euler Beams and High Angular Velocity", Dept. of Mechanical Legnineering, National Chiao Tung University, Hsinchu Tiavaa 14 Nov. 2005.       8.         8.       H. Ding, G.C. Zhang, K., Fuex Kitipornehai, Yangh Xiang, "Flexural Vibration and Elastic Buckling of a Cracked Timoschenko Beam made of Functional Velocity", Dept. of Mechanical Journal of Nohlinear Mechanics, 2011.       1.         9.       Linea K., F. Yang, Sritawat Kitipornehai, Yangh Xiang, "Flexural Vibration and Elastic Buckling of a Cracked Timoschenko Beam made of Functional Vibration Project Tracking is to associate target objects in consecutive video frames. The association can be especially difficult when the tracked object charges o		Cantilever Beam, N	Non-linearities in Cracked cantilever beam, Vibrations of axially moving beam.			
1.       Cock, R.D., and Young, W.C., Advanced Machanics of Materials, Prentice Hall, New Jersey, 1999       53-55         2.       Nayfeh, A.H., and Par, F., "Lincar and Nonlinear Structure Achanics", John Wiley & Sons, New York, 2003.       3.         3.       D. Ravi Prasad and D.R. Seshu, "A study on Dynamic Characteristics of Structural Materials Using Modal Analysis", Asian Journal of Civil Ingineering, Volume 9, Number 2, Pages 141-152, 2008.       4.         1.       Tarsicobelefandez, Cristianneipp and Augusto belefandez, "Numerical and Experimental Analysis of a Cantilever Beam: a Laboratory Project to Introduce Geometric Nonlinearity in Machanics of Materials", International Journal of Tele Vipsci 10, 19, No. 6, pp. 885-892, 2003.         5.       H HYoo and S H Shin, "Vibration Analysis of Rotating Cantilever Beams", Journal of Sound & Vibration, Pages 807-828, 12 Dec. 1997.         6.       Mouse Rezare and Reza Hassannejad, "Damped Free Vibration Analysis of Rotating Bule Beams and High Angular Velocity", Dept. of Mechanical Engineering, National Chenois Tug, Linviers YI, Hsinuch Tawau 14 Nov. 2005.         8.       H. Ding, G.C. Zhang, LQ Chen, "Supercritical Vibration of Non-linear Coupled Moving Beams based on Discrete Fourier Transform", International Journal of Nonel-Intear Coupled Moving Beams based on Discrete Fourier Transform", International Journal of Nonel-Intear Coupled Moving Beams based on Discrete Fourier Transform", International Synamic Characterizet Jouetons to consecutive video frames. Volume 16, Page 488-502, 2009.         Authors:         Shubham Srivastava, Pratibha Singh         Paper Title:	11.	-				
1.       Cook, K.D., and Tonig, W. Z., Auvanced networkans, Frence Hain, New Mesey, 1999       2.       Nayfer, A.H., and Pu, P. T., "Linaer and Nonlinear Structure Mechanics", John Wiley & Sons, New York, 2003.         2.       Nayfer, A.H., and Pu, P. T., "Linaer and Nonlinear Structure Mechanics", John Wiley & Sons, New York, 2003.         3.       D. Rav Prasad and D.R. Seshu, "A study on Dynamic Characteristics of Structural Materials Using Modal Analysis", Asian Journal of Civil Engineering, Volume 9, Number 2, Tages 141-152, 2008.         4.       Tarsicobeleindez, Cristianneipp and Augusto beleindez, "Numerical and Experimental Analysis of a Cantilever Beam: a Laboratory Project to Introduce Geometric Nonlinearity in Mechanics of Materials", Humaniso and Tegume Gravita Using Energy Balance Methods", International Journal of the Physical Sciences, Pages 793-803, Volume 5(6), June, 2010.         9.       Mouss Rezaee and Reza Hassanejad, "Damped Free Vibration Analysis of Astaine Fuel Havis Sciences, Pages 793-803, Volume 5(6), June, 2010.         9.       International Journal of the Physical Sciences, Pages 793-803, Volume 5(6), June, 2010.         9.       Nons, R.L., Chen, "Supercritical Vibration of Non-Innear Coupled Moving Beams and High Angular Velocity", Dept. of Mechanical Journal of Nonlinear Mechanics, 2011.         9.       Ling K.E., Page, Stitawat Kitipornchai, Yangh Xiang, "Flexural Vibration and Elastic Buckling of a Cracked Timoshenko Beam made of Functionally Graded Materials", Johnal Singh         9.       Ling K.E., Page, Stitawat Kitipornchai, Yangh Xiang, "Flexural Vibration and Elastic Buckling of different possible motions of the objects are moving				53-55		
3. D. Ravi Prasad and D.R. Seshu, "A study on Dynamic Characteristics of Structural Materials Using Modal Analysis", Asian Journal of Civil Experimental Analysis of A Cantilever Beam: a Laboratory Project to Introduce Geometric Nonlinearity in Mechanics of Materials", International Journal of Sound & Vibration, Pages 807-828, 12 Dec. 1997.         6. Mousa Rezare and Rezz Hassannejad, "Damped Free Vibration Analysis of a Ream with a Fatigue Crack using Energy Balance Methods", International Journal of the Physical Sciences, Pages 793-803, Volume 5(6), June, 2010.         7. Chih Ling Huang, Wen Yi Lin, Luo Mo Hsio, "Free Vibration Analysis of Rotating Eurle Beams and High Angular Velocity", Dept. of Mechanical Engineering, National Chiao Tung Diriversity, Histinch Tawau 14 Nov, 2005.         8. H. Ding, G.C. Zhang, LQ Chen, "Supercritical Vibration of Non-linear Coupled Moving Beams based on Discrete Fourier Transform", International Journal of Nonlinear Mechanics, 2011.         9. Liao- Liang Ke, Jie Yang, Sritawat Kitipornchai, Yanghh Xiang, "Fexual Vibration and Elastic Buckling of a Cracked Timoshenko Beam made of Functional Jo Graded Materials", Journal of Advanced Materials and Structures, Volume 16, Page 488-502, 2009.         4. Authors:       Shubham Srivastava, Pratibha Singh         Paper Title:       Real-Time Object Tracking Using Colour Feature         Abstract:       Video Tracking is the process of locating a moving object over time using a camera. The objective of video tracking system susually employ a motion model which describes how the image of the target might change for different possible motions of the object. In this paper an algorithm is proposed to track the real time moving objects ari different frames of a video.						
4. Taršciobelčandez, Cristianneipp and Augusto belčandez, "Numerical and Experimental Analysis of a Cantilever Beam: a Laboratory Project to Introduce Geometric Nonlinearity in Mechanics of Materials", International Journal of Engineering, Vol. 19, No. 6, pp. 855-892, 2003.         5. H HYco and S H Shin, "Vibration Analysis of Rotating Cantilever Beams", Journal of Sound & Vibration, Pages 807-828, 12 Dec. 1997.         6. Mousa Rezze and Rezz Hassannejad, "Damped Free Vibration Analysis of a Beam Weine 2010.         7. Chih Ling Huang, Wen Yi Lin, Luo Mo Hsio, "Free Vibration Analysis of Rotating Euler Beams and High Angular Velocity", Dept. of Mechanical Engineering: National Chiao Tugu University, Histonical Tiavan 14 Nov. 2005.         8. H. Ding, G.C. Zhang, LQ Chen, "Supertritical Vibration of Non-linear Coupled Moving Beams based on Discrete Fourier Transform", International Journal of Nonlinear Mechanics. 2011.         9. Liao- Liang Ke, Jie Yang, Sritawat Kitipornchai, Yanghh Xiang, "Flexural Vibration and Elastic Buckling of a Cracked Timoshenko Beam made of Functionally Graded Materials", Journal of Advanced Materials and Structures, Volume 16, Page 488-502, 2009.         Authors:         Shubham Srivastava, Pratibha Singh         Paper Title:         Real-Time Object Tracking Using Colour Feature         Authors:         Authors:         Authors:         Shubham Srivastava, Pratibha Singh         Paper Title:         Real-Time Object Tracking Using Colour Feature						
to Introduce Geometric Nonlinicarity in Mechanics of Materials", International journal of Engineering, Vol. 19, No. 6, pp. 885-4892, 2003.         5.       H HY Yoo and St Nbin, "Vibration Analysis of Autoting Cantilever Beams", Journal of Sound & Vibration. Pages 807-828, 12 Dec. 1997.         6.       Mousa Rezaee and Reza Hassannejad, "Damped Free Vibration Analysis of a Beam with a Fatigue Crack using Energy Balance Methods", International Journal of the Physical Sciences, Pages 793-803, Volume 5(6), June, 2010.         7.       Chih Ling Huang, Wen Yi Lin, Low On Hisio, Three Vibration Analysis of Koatiang Euler Beams and High Angular Velocity", Dept. of Mechanical Engineering; National Chiao Tung University, Hsinchu Tiawan 14 Nov. 2005.         8.       H. Ding, G.C. Zhang, L.Q. Chen, "Supercritical Vibration on Non-linear Coupled Moving Beams based on Discrete Fourier Transform", International Journal of Nonlinear Mechanics, 2011.         9.       Laize Ke, Lie Yang, Srituwat Kitipornchair, Yanghh Xiang, "Flexural Vibration and Elastic Buckling of a Cracked Timoshenko Beam made of Functionally Graded Materials", Journal of Advanced Materials and Structures, Volume 16, Page 488-502, 2009.         Authors:       Shubham Srivastava, Pratibha Singh         Paper Title:       Real-Time Object Tracking Using Colour Feature         Abstract:       Video Tracking is the process of locating a moving object over time using a camera. The objective of video tracking is to associate target objects in consecutive video frames. The association can be especially difficult when the objects are moving fast relative to the frame rate. Another situations video tracking systems usually employ a motion model which descri		Engineering, Volume 9, Number 2, Pages 141-152, 2008.				
5.       H HYoo and S H Shin, "Vibration Analysis of Rotating Cantilever Beams", Journal of Sound & Vibration, Pages 807-828, 12 Dec. 1997.         6.       Mousa Rezare ansemied, "Damped Free Vibration Analysis of a Beam with a Fatigue Crack using Energy Balance Methods", International Journal of the Physical Sciences, Pages 793-803, Volume 5(6), June, 2010.         7.       Chih Ling Huang, Wen Yi Lin, Luo Mo Hsio, "Free Vibration Analysis of Rotating Euler Beams and High Angular Velocity", Dept. of Mechanical Engineering: National Chiao Ting University, Hsinchi Tiawan 14 Nov. 2005.         8.       H. Ding, G.C. Zhang, LQ Chen, "Supercritical Vibration of Non-linear Coupled Moving Beams based on Discrete Fourier Transform", International Journal of Nonlinear Mechanics. 2011.         9.       Liao- Liang Ke, Jie Yang, Sritawat Kitipornchai, Yanghh Xiang, "Flexural Vibration and Elastic Buckling of a Cracked Timoshenko Beam made of Functionally Graded Materials", Journal of Advanced Materials and Structures, Volume 16, Page 488-502, 2009.         4       Authors:       Shubham Srivastava, Pratibha Singh         Paper Title:       Real-Time Object Tracking Using Colour Feature         Abstract:       Video Tracking is the process of locating a moving object over time using a camera. The objective of video tracking is to associate target objects in consecutive video frames. The association can be especially difficult when the objects are moving fast relative to the frame rate. Another situation that increases the complexity of the problem is when the tracked object tracking, Feature Extraction.       S66-59         12.       Keywords:       Shape Features, Object tracking						
6. Mousa Rezace and Reza Hassannejad, "Damped Free Vibration Analysis of a Beam with a Fatigue Crack using Energy Balance Methods", International Journal of the Physical Sciences, Pages 793-803, Volumes (50), June, 2010.         7. Chih Ling Huang, Wen Yi Lin, Luo Mo Hsio, "Free Vibration Analysis of Rotating Euler Beams and High Angular Velocity", Dept. of Mechanical Engineering; National Chiao Tung University, Hsinchu Tiawan 14 Nov. 2005.         8. H. Ding, G.C. Zhang, LQ Chen, "Supercritical Vibration of Non-linear Coupled Moving Beams based on Discrete Fourier Transform", International Journal of Nonlinear Mechanics, 2011.         9. Liao Liang Ke, Jie Yang, Sritawa Kitipornchani, Yanghh Xiang, "Flexural Vibration and Elastic Buckling of a Cracked Timoshenko Beam made of Functional Journal of Advanced Materials and Structures, Volume 16, Page 488-502, 2009.         Authors:       Shubham Srivastava, Pratibha Singh         Paper Title:       Real-Time Object Tracking Using Colour Feature         Abstract:       Video Tracking is the process of locating a moving object over time using a camera. The objective of video tracking is to associate target objects in consecutive video frames. The association can be especially difficult when the objects are moving fast relative to the frame rate. Another situation that increases the complexity of the problem is when the tracked object changes orientation over time. For these situations video tracking systems usually employ a motion model which describes how the image of the target might change for different possible motions of the object. In this paper an algorithm is proposed to track the real time moving objects in different frames of a video.       56-59         1.       Q. Wang and Z. Gao, "Study on a Real-Ti						
1. Chih Ling Huang, Wen Yi Lin, Luo Mo Hsio, "Free Vibration Analysis of Rotating Euler Beams and High Angular Velocity", Dept. of Mechanical Engineering: National Chiao Tung University, HsinchuTiawan 14 Nov. 2005.         8. H. Ding, G. C. Zhang, LQ Chen, "Supercritical Vibration of Non-linear Coupled Moving Beams based on Discrete Fourier Transform", International Journal of Nonlinear Mechanics , 2011.         9. Liao-Liang Ke, Di e Yang, Striwauk Kitipornchai, Yanghh Xiang, "Flexural Vibration and Elastic Buckling of a Cracked Timoshenko Beam made of Functionally Graded Materials", Journal of Advanced Materials and Structures, Volume 16, Page 488-502, 2009.         Authors:       Shubham Srivastava, Pratibha Singh         Paper Title:       Real-Time Object Tracking Using Colour Feature         Abstract:       Video Tracking is the process of locating a moving object over time using a camera. The objective of video tracking is to associate target objects in consecutive video frames. The association can be especially difficult when the objects are moving fast relative to the frame rate. Another situation that increases the complexity of the problem is when the tracked object changes orientation over time. For these situations video tracking systems usually employ a motion model which describes how the image of the target might change for different possible motions of the object. In this paper an algorithm is proposed to track the real time moving objects in different frames of a video.         12.       Keywords: Shape Features, Object tracking, Feature Extraction.       56-59         8.       Author Si dan Martiuke of Technology, Kharagpur, seminar on "Object tracking in video scenes", 2005.       2005.		6. Mousa Rezaee an	d Reza Hassannejad, "Damped Free Vibration Analysis of a Beam with a Fatigue Crack using Energy Balance Methods",			
Mechanical Engineering: National Chiao Tung University, HsinchuTiawan 14 Nov. 2005.         8. H. Ding, G.C. Zhang, LQ Chen, "Supercritical Vibration of Non-linear Coupled Moving Beams based on Discrete Fourier Transform", International Journal of Nonlinear Mechanics, 2011.         9. Liao-Liang Ke, Jie Yang, Sritawat Kitipornchai, Yanghh Xiang, "Flexural Vibration and Elastic Buckling of a Cracked Timoshenko Beam made of Functionally Graded Materials", Journal of Advanced Materials and Structures, Volume 16, Page 488-502, 2009.         Authors:       Shubham Srivastava, Pratibha Singh         Paper Title:       Real-Time Object Tracking Using Colour Feature         Abstract:       Video Tracking is the process of locating a moving object over time using a camera. The objective of video tracking is to associate target objects in consecutive video frames. The association can be especially difficult when the objects are moving fast relative to the frame rate. Another situation that increases the complexity of the problem is when the tracked object changes orientation over time. For these situations video tracking systems usually employ a motion model which describes how the image of the target might change for different possible motions of the object. In this paper an algorithm is proposed to track the real time moving objects in different frames of a video.         12.       Keywords:       Shap E Features, Object Tracking System," in Computer Science and Computational Technology, 2008. ISCSCT 08. International Symposium on, vol.2, 2008.       S6-59         2.       Alok K. Watve, Indian Institute of Technology, Kharagpur, seminar on "Object tracking in video scenes", 2005.       S. Lakshmi Devasena, R. Revathi, "Video surveillance		International Jour	nal of the Physical Sciences, Pages 793-803, Volume 5(6), June, 2010.			
8. H. Dig, G.C. Zhang, IQ Chen, "Supercritical Vibration of Non-linear Coupled Moving Beams based on Discrete Fourier Transform", International Journal of Nonlinear Mechanics, 2011.         9. Liao- Liang Ke, Jie Yang, Sritawat Kiitpornchai, Yanghh Xiang, "Flexural Vibration and Elastic Buckling of a Cracked Timoshenko Beam made of Functionally Graded Materials", Journal of Advanced Materials and Structures, Volume 16, Page 488-502, 2009.         Authors:       Shubham Srivastava, Pratibha Singh         Paper Title:       Real-Time Object Tracking Using Colour Feature         Abstract:       Video Tracking is the process of locating a moving object over time using a camera. The objective of video tracking is to associate target objects in consecutive video frames. The association can be especially difficult when the objects are moving fast relative to the frame rate. Another situation that increases the complexity of the problem is when the tracked object changes orientation over time. For these situations video tracking systems usually employ a motion model which describes how the image of the target might change for different possible motions of the object. In this paper an algorithm is proposed to track the real time moving objects in different frames of a video.       56-59         12.       Keywords:       Shape Features, Object tracking, System," in Computer Science and Computational Technology, 2008. ISCSCT08. International Symposium on, vol.2, 2008.       56-59         2.       Alok K. Watve, Indian Institute of Technology, Kharagpur, seminar on "Object tracking in video scenes", 2005.       56-59         3.       C. Lakshmi Devasena, R. Revathi, " Video surveillance system-A survey", JICSI International j						
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References:         1. Q. Wang and Z. Gao, "Study on a Real-Time Object Tracking System," in Computer Science and Computational Technology, 2008. ISCSCT'08. International Symposium on, vol.2, 2008.         2. Alok K. Watve, Indian Institute of Technology, Kharagpur, seminar on "Object tracking in video scenes", 2005.         3. C. Lakshmi Devasena, R. Revathi, "Video surveillance system-A survey", IJCSI International journal of computer science Issues, vol. 8, issue 4, no.1, July 2011.         4. K. Wang, Z. Li, Q. Yao, W. Huang, and F. Wang, "An automated vehicle counting system for traffic surveillance," IEEE Int. Conf., on Vehicular Electronics and Safety, Japan, Dec 2007, pp. 1-6.Books:         5. Rafael C. Gonzalez, Richard E. Woods. Digital Image Processing, Pearson Education, 2009.         6. S. Sridhar. Digital Image Processing, Oxford Higher Edition. 2011.         Authors:       Alnuami W., Buthainah A., Etti C. J., Jassim L. I., Gomes G. A. C.	12.	Keywords: Shap	be Features, Object tracking, Feature Extraction.			
1. Q. Wang and Z. Gao, "Study on a Real-Time Object Tracking System," in Computer Science and Computational Technology, 2008. ISCSCT'08. International Symposium on, vol.2, 2008.         2. Alok K. Watve, Indian Institute of Technology, Kharagpur, seminar on "Object tracking in video scenes", 2005.         3. C. Lakshmi Devasena, R. Revathi, "Video surveillance system-A survey", IJCSI International journal of computer science Issues, vol. 8, issue 4, no.1, July 2011.         4. K. Wang, Z. Li, Q. Yao, W. Huang, and F. Wang, "An automated vehicle counting system for traffic surveillance," IEEE Int. Conf., on Vehicular Electronics and Safety, Japan, Dec 2007, pp. 1-6.Books:         5. Rafael C. Gonzalez, Richard E. Woods. Digital Image Processing, Pearson Education, 2009.         6. S. Sridhar. Digital Image Processing, Oxford Higher Edition. 2011.         4. Authors:         Alnuami W., Buthainah A., Etti C. J., Jassim L. I., Gomes G. A. C.		D . f		56-59		
ISCSCT'08. International Symposium on, vol.2, 2008.         2. Alok K. Watve, Indian Institute of Technology, Kharagpur, seminar on "Object tracking in video scenes", 2005.         3. C. Lakshmi Devasena, R. Revathi, "Video surveillance system-A survey", IJCSI International journal of computer science Issues, vol. 8, issue 4, no.1, July 2011.         4. K. Wang, Z. Li, Q. Yao, W. Huang, and F. Wang, "An automated vehicle counting system for traffic surveillance," IEEE Int. Conf., on Vehicular Electronics and Safety, Japan, Dec 2007, pp. 1-6.Books:         5. Rafael C. Gonzalez, Richard E. Woods. Digital Image Processing, Pearson Education, 2009.         6. S. Sridhar. Digital Image Processing, Oxford Higher Edition. 2011.         4. Authors:       Alnuami W., Buthainah A., Etti C. J., Jassim L. I., Gomes G. A. C.			Gao "Study on a Real-Time Object Tracking System" in Computer Science and Computational Technology 2009			
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Abstract: The challenges of the dwindling supply of fossil fuels and environmental pollutions caused by them are of growing concerns in the world today. Theincrease in world population has resulted in higher consumption of fossil fuel leading to a reduction in petroleum reserves, which are finite and found only in a few regions of the world. Hence, it becomes necessary to look for alternative fuel that is cheap and can be produced from readily available materials. Biodiesel is a renewable energy derived from vegetable oil and animal fats by transesterificationwith methanol and is widely adopted in many countries around the world as an alternative form of energy resource. It has been found to be a very good substitute for petroleum diesel with several advantages such as lower toxicity, higher flash and fire points than the petroleum diesel meaning that they are less flammable hence they are safer to handle, better biodegradable and higher lubricity than the petroleum diesel which means that an engine run on biodiesel will be less prone to wear and will last longer. The high cost of biodiesel is a major setback to its commercialization. And is mainly due to the high cost of raw materialsit's the production. Therefore, identifying the right and readily available material that will give good biodiesel yield with good fuel properties and performance dynamic efficiency is very important. This Paperevaluates the different materials that are suitable for biodiesel production as an alternative source of fuel.

Keywords: Alternative fuel, Biodiesel, Petroleum fuel, Transesterification, Triglycerides

#### **References:**

- 1. Alcantara, R., Amores, J., Canoira, L., Fidalgo, E., Franco, M. J., & Navarro, A. (2000). Catalytic production of biodiesel from soybean oil, used frying oil and tallow. Biomass Bioenergy, 18, 515-527.
- 2. Amish, P. V., Subrahmanyam, N., & Payal, A. P. (2009). Production of biodiesel through transesterification of Jatropha oil using KNO2/Al2O3 solid catalyst.
- Antolin, G., Tinaut, F. V., Briceno, Y., Castano, V., Perez, C., & Ramirez, A. I. (2002). Optimization of biodiesel production by sunflower oil transesterification. Bioresour. Technol, 83 (2), 111.
- 4. Ayhan, D. (2002). No TitleBiodiesel from vegetable oils via transesterification in supercritical methanol. International Journal of Energy conversion and Management, 43, 2349-2356.
- 5. Berchmans, H. J., & Hirata, S. (2008). Biodiesel production from crude Jatropha curcas L. Seed oil with a high content of free fatty acids. Bioresource Technology, 99, 1716-1721.
- 6. Bhale, P. V., Deshpande, N. V., & Thombre, S. B. (2009). Improving the low temperature flow properties of biodiesel fuel. Renewable Energy, 34 (3), 6.
- Bournay, L., Casanave, D., Delfort, B., Hillon, G., & Chodorge, J. A. (2005). New heterogeneous process for biodiesel production: A way to improve the quality and the value of the crude glycerin produced by biodiesel plants. Catalysis TODAY, 106, 1-4. Doi: 190-192. doi: DOI: 10.1016/j. coated. 2005.07.181
- Chang, D. Y. Z., Van Gerpen, J. H., Lee, I., Johnson, L. A., Hammond, E. G., & Marley, S. J. (1996). Fuel properties and emissions of soybean oil esters as diesel fuel. J. Am. Oil Chem. Soc., 7311, 1549.
- 9. Chen, Y., Xiao, B., Chang, J., Fu, Y., L v, P., & Wang, X. (2009). Synthesis of biodiesel from waste cooking oil using immobilized lipase in fixed bed reactor. Energy Conversion and Management, 50 (3), 668-673. doi: doi: DOI: 10.1016/j. enconman. 2008.10.011
- 10. Demirbas, A. (2005). Biodiesel production from vegetable oil via and non-catalytic supercritical methanol transesterification methods. Progress in Energy and Combustion Science, 31, 466-487.
- 11. Demirbas, A. (2009). Biodiesel from waste cooking oil via base-catalytic and supercritical methanol transesterification. Energy Conversion and Management, 50 (4), 923-927. doi: DOI: 10.1016/j. enconman. 2008.12.023
- 12. Denker, J. (2009). Timescale for depletion of fossil energy resources. Retrieved December, 12, 2010from: http://www.av8n.com/physics/fossil-resources.htm.
- Di Serio, M., Tesser, R., Pengmei, L., & Santacesaria, E. (2008). Production, Heterogeneous catalysts for biodiesel. Energy and Fuels, 22 (1), 207-217. doi: doi: DOI: 10.1021/ef700250g
- 14. GeoSunNrg. (N.d.). Need for renewable energy. 2010. Retrieved from http://www.geosunnrg.com/about-us/resource/need-for-renewableenergy.
- 15. Graboski, M. S., & McCormick, R. L. (1998). Combustion of fat and vegetable oil derived fuels in diesel engines. Prog. Energy Combust. Sci., 24, 125.
- 16. Gubitz, G. M. (1999). Exploitation of the tropical seed plant Jathropha Curcas L. Boires Technol, 67, 73-82.
- Joelianingsih, Meada, H., Hagiwara, S., Nabetani, H., Sagara, Y., Soerawidjaya, T. H., Armansyah, H., et al. (2008). Biodiesel fuels from palm oil via the non-catalytic transesterification in a bubble column reactor at atmospheric pressure: A kinetic study. Renewable Energy, 33, 1629-1636.
- 18. Krawczyk, T. (1996). Biodiesel. INFORM, 7 (8), 801-822.
- 19. Liu, X., He, H., Wang, Y., Zhu, S., & Xianglan. (2007). Transesterification of soybean oil to biodiesel using CaO as a solid base catalyst. Fuel journal, 87, 216-221.
- Liu, X., Piao, X., Wang, Y., Zhu, S., & He, H. (2008). Calcium methoxide as a solid base for the transesterification of soybean oil to biodiesel with methanol. Fuel, 87 (7), 1076-1082. doi: doi: DOI: 10.106/j. fuel. 2007.05.057
- 21. Lott, M. (2002). QSS Group Inc., 4500 Forbes Boulevard, Suite 200, Lanham, MD 20706.
- 22. Meng, X., Chen, G., & Wang, Y. (2008). Biodiesel production from waste cooking oil via alkali catalyst and engine test. Fuel processing Technology, 89, 851-857.
- 23. Moser, B. R., & Vaughn, S. F. (2010). Coriander seed oil methyl esters as biodiesel fuel: Unique fatty acid composition and excellent oxidative stability. Biomass and bioenergy, 34, 550-558.
- 24. Nakpong, P., & Wootthikkhan, S. (2010). High free fatty acid coconut oil as a potential feedstock for biodiesel production in Thailand. Renewable Energy, 35, 1682-1687.
- Nye, M., Williamson, T., Deshpande, W., Schrader, J., Snively, W., Yurkewich, T., & French, C. (1983). Conversion of used frying oil to diesel fuel by transesterification: Preliminary tests. Journal of American Oil Chemists' Society, 60 (8), 1598-1601. doi: DOI: 10.1007/bf02666593
- Peng, B., Shu, Q., Wang, J., Wang, G., Wang, D., & Han, M. (2008). Biodiesel production from waste oil feed stocks by solid acid catalysis, 86, 441-447.
- 27. Predojevic, Z. J. (2008). The production of biodiesel from waste cooking oils: A comparison of different purification step. Fuel, 87, 3522-3528.
- 28. Prokop, T. (2002). Imperial Western Products, 14970 Chandler St., Coachella, CA 91720.
- 29. Ramadhas, A. S., Jayaraj, S., & Muraleedhara, C. (2005). Biodiesel production from high FFA rubber seed oil. Fuel, 84, 335-340.
- 30. Rice, B., Frohlich, A., & Leonard, R. (1998). Biodiesel production from Camelina oil, waste cooking oil and Fallow Crop Research Centre, Oak park, Carlow.
- 31. Samart, C., Chaiya, C., & Reubroycharoen, P. (2010). Biodiesel production from methanolysis of soybean oil using calcium supported on mesoporous silica catalyst. Energy Conversion and Management, 51, 1428-1431.
- 32. Shah, S., & Gupta, M. N. (2007). Lipase catalyzed preparation of biodiesel from Jatropha oil in a solvent free system. Process Biochemistry, 42, 409-414.

60-65

		ngh, B., & Upadhyay, S. N. (2008). Advancement in development and characterization of biodiesel: A review. Fuel, 87, X., & Hanna, M. A. (2009). Synthesis and characterization of hazelnut oil-based biodiesel. Industrial Crops and Products,	
	Authors:	Chitra Sree. P, Ravi Shankar.J	
	Paper Title:	Implementation of Digital Cross Connect For Simplex Mode of Communication	
	simulated various reprogrammable, s and request and a Xilinx ISE9.1i vers	available in the market is expensive and bulky and not scalable and reprogrammable. We have a DCS modes, mainly concentrates on developing indigenous SOC architecture that is calable and upgradable. The various switching modes of proposed DCS are round robin, priority cknowledge, The design is simulated using Verilog Hardware Description Language (HDL) in sion software and can be implemented on Xilinx Spartan2 family based FPGA board.	
14.		communication, Switching, DCS, simplex mode, round robin, priority, request and acknowledge	
	<ul> <li>pg 1-7.</li> <li>2. "Building Crosspoi</li> <li>3. J. E. Flood, "Teleco</li> <li>4. Thiagarajan Vishwa</li> <li>5. GuoweiShi ,"Designation (Construction)</li> <li>5. Expositions, IEEE</li> <li>6. Yuan Yuying, "Designation"</li> </ul>	Robert Le, "High-Speed Buffered Crossbar Switch Design using Virtex -EM Devices" XAPP240 (v1.0) March 14, 2000, nt Switches with CoolRunner-II CPLDs" XAPP380 (v1.0) June 5, 2002, pg 1-5. ommunication Switcing, Traffic and Networks," Pearson 2011. anathan, "Telecommunication Switching Systems and Networks," PHI 2012. gn and application of SDH digital cross-connect system", Communications, Circuits and Systems and West Sino 2002 International Conference on communications. vol.2,pg 1293 - 1296 sign and Realization of SDH Digital Cross-Connect Matrix ",IEEE Conference Publications, WiCom ,2007 ,pg 692 - 695 design of the SDH digital cross-connect matrix based on ASIC", World Automation Congress (WAC), IEEE Conference	66-69
	Publication,2012.pg	<sup>g 1-4</sup> Vikram J. Patel, Hemraj R. Kumavat	
	Paper Title:	Modelling of Speed- Flow Equations on Four- Lane National Highway-8	
15.	<ul> <li>Abstract: The prior of a road. The Print for different types</li> <li>Keywords: Capa</li> <li>References: <ol> <li>Errampalli Madhu high-speed multi-</li> <li>Huafeng Gong, C Kentucky Doctora</li> <li>Speed Prediction :</li> <li>Modeling Operati</li> <li>V. Thamizh Aras Vol. 22, 2008.</li> <li>Richard Dowling</li> <li>Kivanc A. Avrer Symposium on Hi</li> <li>Indonesia Highwa</li> <li>Michael Kyte et. A</li> <li>Lonnie E. Haefne 1998.</li> </ol> </li> <li>Ibrahim Hassan F Shams Engineerin</li> <li>Ratish Chandra et.</li> </ul>	recise determination of relationship between speed and flow is essential for arriving at the capacity icipal objective of the present study is to evaluate speed-flow relationships on National Highway-8 of vehicles by developing separate speed-flow equations on NH-8. acity, Flow, Free speed, Spot speed, Lane width, Speed-Flow equations for assessment of road-user cost on lane carriageways of India on Plain Terrain, Current Science, vol. 100, no. 9, 10 May 2011. Operating Speed Prediction Models for Horizontal Curves On Rural Four-Lane Non-Freeway Highways, University of I Dissertations. for Two-Lane Rural Highways, Publication No. 99-171 August 2000. ng Speed Synthesis Report, Transportation Research Circular, Number E-C151 July 2011. an, and G. Dhivya, Measuring Heterogeneous Traffic Density, World Academy of Science, Engineering and Technology, et. Al, Urban Arterial Speed-Flow Equations For Travel Demand Models, April 19, 2006. Uil et. Al, Traffic Flow Characteristics and Capacity in Police-enforced and Intelligent Work Zones, International ghway Capacity Manual, Part-II Interurban Roads No. 05, January 1995. Al, Effect of Environmental Factors on Free-Flow Speed. r and Ming- Shiun Li, Traffic Flow Simulation for an Urban Freeway Corridor, Transportation Conference Preceedings, Iashim, Analysis of speed characteristics for rural two-lane roads: A field study from Minoufiya Governorate, Egypt, Ain g Journal, 2011, Vol.2, pp. 43-52. nal, Kivan Avrenli and Hani Ramezani, Traffic Flow Characteristic and Capacity in Intelligent Work Zones, 2009. al, Traffic Flow Analysis on Intermediate Lane Roads, Indian Highways, December-2010.	70-75
	Authors:	Hemraj R. Kumavat, Vikram J. Patel	
	Paper Title:	Factors Influencing the Strength Relationship of Concrete Cube and Standard Cylinder	
16.	aggregate and w/c specimens are pre- strength of each sp of cylinder to cube also show there is in <b>Keywords:</b> Aggre <b>References:</b> 1. M.S.Shetty, Concre 2. Tumidajski P.J. and 76-78 (2006) 3. Aitcin, P.C., Miao, High- Strength Cor 4. IS 456:2000 Code of 5. IS 383:1970 Specifi	per report an experimental study carried out to investigate to influence of addition of different size ratio on the mechanical properties of controlled concrete. The standard size cube and cylinder pared and cured for period of 7 and 28 days. At the end of each curing period the compressive becimen are determined. The result indicate that the cement content in mix are increasing, the ratio e strength is in case of 10mm aggregate than the 20mm aggregate are also increasing. The results no unique relationship between the strength of cube and strength of cylinder. egate size, Compressive strength, Cube and Cylinder specimen, w/c ratio, the technology-theory and practice, S Chand publication (2005) d Gong B., Effect of coarse aggregate size on strength and workability of concrete, Canadian Journal of Civil Engineering, B., Cook, W. D., and D. Mitchell. 1994. Effects of Size and Curing on Cylinder Compressive Strength of Normal and incretes. ACI Materials Journal 91(4): 349-354 of practice for plain and reinforced concrete (fourth revision) Aug 2005 leation for coarse and fine aggregates from natural sources for concrete (second revision) Jan 2007 d of test for strength of concrete Feb 2004	76-79

7. IS 2386(Part 1):1963 Methods of test for aggregates for concrete: Part 1 Particle size and shape Jan 2007

		Explanatory handbook on Indian Standard code of practice for plain and reinforced concrete (IS 456:1978) 1983- method for determination of compressive strength of concrete cores.	
	Authors:	Yashveer Singh, Kriti Arya, A K Malik	
	Paper Title:	Inventory Control with Soft Computing Techniques	
	the application o management is or purpose served by inventory in any b fulfilled then good business.	bjective of this paper is the findings a systematic review of existing research papers concern with f soft computing techniques to inventory management. In business organization, inventory ne of the major core competencies to compete in the global market place. The most important to the stores is to provide the uninterrupted service to the manufacturing divisions. The purpose of usiness is to decrease the cost of set up and shortage cost. Whenever demands of customers are not h-will of the customers may be lost and the cancellations of orders i.e., result may be in the lost of the universe of the control, Soft Computing, Fuzzy Logic, Genetic Algorithm.	
	Dofessor		
17.	<ol> <li>Zadeh, L. A. (196</li> <li>Bellman, R. E. &amp;</li> <li>H. J. Zimmerman</li> <li>E.A.Silver, R. Pet</li> <li>H. J. Zimmerman</li> <li>Park, K. S. (1987) 1082-1084.</li> <li>J.F. Bard, J.T. Mc</li> <li>Lee, Y. Y., Kran Journal of Produc</li> <li>Yao J.S. and Lee Sets and Systems.</li> <li>Yao J.S. and Lee Sets and Systems.</li> <li>Yao J.S. and Lee Sets and Systems.</li> <li>W.H. Ip, Y. Li, K Industrial Engined.</li> <li>M. Papadrakakis, pp. 283-300.</li> <li>Hsieh, C.H. (2002)</li> <li>R. P. Sundarraj, Technologies. Eu</li> <li>Y. Yi, D. Wang, Journal of Intellig</li> <li>Chang, H., C., Ya and triangular fuz</li> <li>Chang, H., C., Ya total demand", Eu</li> <li>Mahapatra, N. K. types of demand a</li> <li>Mahapatra, N. K. types of demand a</li> <li>Matit, M.K., and genetic algorithm</li> <li>Dutta, P, Chakrab Mathematics and</li> <li>Yung, K. L., W. International Jour</li> <li>Singh, S.R. and fransactions in M</li> <li>Halim, K.A., Gir International Jour</li> <li>Singh, S.R., Ma International Jour</li> <li>Singh, S.R., and Mathematics and solution of a starting the movironment. App</li> <li>Singh, S.R., Ma International Jour</li> <li>Malik, A.K. and Si International Jour</li> <li>Malik, A.K. and Si</li> <li>Malik, A.K. and Si</li> <li>Malik, A.K. and Si</li> <li>Malik, A.K. and Si</li> </ol>	H.M., (1999). Fuzzy inventory with or without backorder for fuzzy order quantity with trapezoidal fuzzy number. Fuzzy	80-82
	Authors:	Buthainah A., Dayang Radiah A. B., Alnuami W., Ethar Y. Salih, Mohammed. A. Jawad	
	Paper Title:	Gasoline Diffusivity of Polypropylene-Polycarbonate Composites	
18.	Abstract: This n absorption. Compo Further, the effect	nanuscript explores the effect of polypropylene-polycarbonate composite (PP-PC) on gasoline osites were prepared from PP-PC of different ratios with and without carbon black as a stabilizer. of aging gasoline in the presence of carbon black for a period of two months was studied. A single s used to produce these composites and form them into 2mm thick sheets. A hydraulic compressor	83-87

was then used to produce a 4mm sheet. Absorption test was carried out in gasoline at different immersion times and different blends. The results showed that the polycarbonate performance was improved upon addition of polypropylene. The results of absorption show that it obey Fick's second law of diffusion and after the addition of carbon black the absorption decrease. Further, a polymer composite comprised of PP/PC/carbon black at a ratio of 30/70/1 % (V/V/V %) performs best as suitable composite for the manufacture of fuel tanks.

Keywords: diffusion, polymer, absorption, composites

#### **References:**

- 1. M. Bilewicz, J.C. Viana, L.A. Dobrzański, Development of microstructure affected by in-mould manipulation in polymer composites and nanocomposites, (2008),31(1), 71–76.
- K. MANNA, P. P. DE, V. N. S. PENDYALA, S. F. XAVIER, Processability, compatibility, and effects of solvent aging on mechanical properties of polycarbonate-polypropylene blends. Plastics rubber and composites processing and applications, 26(1), 27–31.
- J. C. Seferis , L. Nicolas, the role of the polymeric matrix in the processing and structural properties of composite materials, Plenum Press, (1983), Technology & Engineering 684 pages.
- 4. L. A. Utracki, polymer alloys and blends, thermodynamics and rheology, (1989), hanser publishers. Munich Vienna new york.
- 5. E. M. (n.d.).Mount, 15 Extrusion Processes, Applied Plastics Engineering Handbook (pp. 227–266), Elsevier. doi:10.1016/B978-1-4377-3514-7.10015-7.
- 6. L.A. Dobrzański, M. Król, M. Bilewicz, J.C. Viana, Microstructure and mechanical properties of Polypropylene / Polycarbonate blends, (2008),27(1), 19–22.
- 7. N. O. T.Measurement, HANDBOOK COMPOSITE MATERIALS HANDBOOK VOLUME 2 . POLYMER MATRIX COMPOSITES, (2002) 2(June).
- 8. A.Jawad, Studying the Effect of Addition of Carbon Black on Rheological Properties of Polypropylene and Polycarbonate, (2013), 31(5), 976–991.
- 9. G. S.Springer, & A. Arbor, Moisture Absorption and Desorption of Composite Materials, (1975), 2-20.
- F.Officer, C. Kourloufas, R. Base, E.Sale, R. Heslehurst, & E.Wilson, A Review of the Effects of Fluid Absorption / Desorption on the Residual Strength of Carbon Fibre Reinforced Composite Materials, (2011), 1–13.
- 11. D.Mpr, NPL REPORT Review of Measurement and Modelling of Permeation and Diffusion in Polymers Bruce Duncan, Jeannie Urquhart Review of Measurement and Modelling of Permeation and Diffusion in Polymers Bruce Duncan, Jeannie Urquhart and Simon Roberts, (2005) (January).
- 12. M. S. M.Shayuti, M. Z.Abdullah, & P. S. M. M.Yusoff, Compressive Properties and Morphology of Polypropylene / Polycarbonate Blends, (2011), 12, 303–307.
- 13. L. Boccacci, Z. Mcgill, Polymer Composite Gasoline Tanks, (2004).
- 14. P.Information, chemical and physical information(1990), 3. 3.1.

15. S.A. Black, B. Pearls & R. Spectra, Exposure Data., 1995(April 1984).		
Authors:	Radha Pandey, Arpan Herbert, Annu Pandey	
Paper Title:	Soil Decontamination by Soil Washing Technique Using Surfactant	

**Abstract:** Soil contamination is mainly due to uncontrolled release of petroleum products like underground leakage from storage tanks and above ground oil spills. Hydrocarbons not only affect the quality of soil but also changes its geotechnical properties. This paper aims to investigate the effect of geotechnical properties of soil contaminated with engine oil and evaluate decontamination by soil washing technique using surfactant Brij-35. The geotechnical properties of contaminated soil samples by different proportion of engine oil i.e 2%, 4%, 6% & 8% were determined. Then contaminated samples have been decontaminated by soil washing technique using surfactant and geotechnical properties were determined and compared with contaminated & virgin soil samples. Results shows that Percentage restoration of contaminated soil is same as virgin soil , maximum restoration was found at 4%. Higher percentage of oil lesser will be restoration capacity.

Keywords: Brij-35, contamination, decontamination, soil washing.

#### **References:**

19.

 L. Preslo, M. Miller, W. Suyama, M. McLearn, P. Kostecki, E.Fleischer, Available remedial technologies for petroleum contaminated soils, Petroleum contaminated soils, vol. 1, Lewis Publishers, Chelsea, Michigan, 1989.

P.G. Nicholson, P.R. Tsugawa, Stabilization of diesel contaminated soil with lime and fly ash admixtures, in: Proc.of International Symposium on Environmental Geotechnology,vol. 1, Envo. Pub. Inc., Bethlehem, 1996, pp. 805–816.
 A.V. Shroff, D.L. Shah, S.J. Shah, Characteristics of fuel oil contaminated soil and remedial measures – a case study, in:Proc. of Indian Geotechnical Conferences, New Delhi, 1998, pp. 49–51.

- J.M.W. Mackenzie, Interaction between oil drops and mineral surfaces, Society of Mining Engineers, AIME, Transaction 247 (1970) 202–208.
- 5. Rosen M J, Surfactant and Interfacial Phenomenon; 2nd Ed., Wiley Interscience: New York, 1989.

6. Al-Tabbaa A and Walsh S, Geotechnical Properties of a Clay Contaminated with an Organic Chemical, 1st International Congress on Environmental Geotechnics; Edmonton, Alberta, Canada, 1994, 599-604

- 7. Jafvert C T, Van Hoof P L and Heath J K, Water Res., 1994, 28(5), 1009-1017.
- 8. Dwarkanath V, Rouse B A, Pope, G A. Kostarelos D, Shotts D and Wade W A, J ContamHydrol., 1999, 38, 465-488.
- M. K. Gupta, R. K. Srivastavaand A. K. Singh, Bench Scale Treatability Studies of Contaminated Soil Using Soil Washing Technique, 2009.
   Al-Tabbaa A and Walsh S, Geotechnical Properties of a Clay Contaminated with an Organic Chemical, 1st International Congress on Environmental Geotechnics; Edmonton, Alberta, Canada, 1994, 599-604.
- 11. Pincus, H.J., Meegoda, N.J., and Ratnaweera, P. 1995. Treatmentof oil contaminated soils for identification and classification. Geotechnical Testing Journal, 18(1): 41–49. doi:10.1520/ GTJ10120J.
- 12. Singh, S.K. 2005. Characterisation and evaluation of behaviour ofsoil contaminated with petroleum hydrocarbons. Ph.D. thesis, Department of Civil Engineering, Panjab University, Chandigarh, India.
- 13. Meegoda N J and Ratanveera P, Geotech Test J., 1995, 18(1), 41-49.
- 14. IS: 2720- Part 7 (BIS, 1974), Determination of Water Content- Dry Density RelationUsing Light Compaction.
- Wroth , C. P. and Wood, D. M. (1978)."The correlation of Index Properties with Some Basic Engineering Properties of Soils."CanadianGeotechnical Journal, 15, 137-145.

20	Authors:	Aslam P. Memon, M. Aslam Uqaili, Zubair A. Memon, Naresh K. Tanwani
20.	Paper Title:	Time-Frequency and Artificial Neural Network Applications and Analysis for Electrical System

#### **Power Ouality Disturbances in MATLAB**

Abstract: In recent years due to increasing utilization of nonlinear loads and power electronic equipment, the issue of EPQD (Electrical power quality disturbances) has become the most important apprehension for suppliers and the users of electric power. It is imperative to detect the sources and causes of electrical power quality disturbances in order to improve EPQ problems. Traditional signal processing techniques permit mapping signals from time to frequency domains by decomposing the signals into several frequency components. Due to this transformation time information is lost. EPQ disturbances vary in the wide range of time and frequency, which means these traditional techniques are not suitable for EPQ problems. This problem can be solved with the application of WT (Wavelet transform) and feedforward neural networks as classifier. Statistical features extraction data is obtained using DWT (discrete wavelet transformation) and MRDA (multiresolution decomposition analysis) utilizing MATLAB/Simulink and Wavelet toolbox. This minimum feature vector data is used for training FFNN as input. Proposed FFNN classifier reduces training. The results obtained show the promising applicability and suitability of WT analysis with neural network for improved and an efficient methodology for automatic diagnosis of EPO problems.

Keywords: Detection and classification, discrete wavelet transform, Electrical power quality disturbances, feedforward neural network, wavelet transforms.

#### **References:**

- M. H. J. Bollen, IEEE Industry Applications Society, IEEE Power Electronics Society, and IEEE Power Engineering Society, 1 "Understanding Power Quality Problems": Voltage Sags and Interruptions. New York: IEEE Press, 2000.
- 2. Roger, C. Dugan., Mark, F. McGranaghan., Santoso, Surya., Beaty, H. Wayne. (2003), Electrical Power Systems Quality, 2nd edition, McGraw-Hill, Book Company, New York, pp. 1-14, 2003.
- IEEE Recommended Practice for Monitoring Electric Power Quality, IEEE Std. 1159-1995. 3
- Solanki Lachman, T., Memon, Aslam P., Mohammad, T.R., and Memon, Zubair, A. (2010), "Detection Of Power Quality Disturbances 4 Using Wavelet Transform Technique," International Journal For The Advancement Of Science & Arts, Volume. 1, No. 1, pp. 1-13, Oct. 2010
- 5. Aslam P. Memon., M. Aslam Ugaili, and Zubair Memon "Wavelet Transform and ANNs for Detection and Classification of Power Signal Disturbances", Mehran University Research Journal of Engineering and Technology, Vol. 31, No. 4, October, 2012.
- Aslam P. Memon., M. Aslam Uqaili, and Zubair Memon "Combined Approach of Probabilistic Neural Network and Time-Frequency as the 6 classifier for Power System Transient Problems", Mehran University Research Journal of Engineering and Technology, Vol 32, No. 4, October 2013
- 7. Bhim Singh,Kamal Al-Haddadf,"A Review of Active Filters for Power Quality Improvement",IEEE Transactions on Industrial Electronics Vol 46N0.5Oct 1999.
- 8. Adly Girgis, Bi Chang and Elham Makram, "A Digital Recursive Measurement for On Line Tracking of Power Systems Harmonics". IEEE transactions on Power Delivery, vol 6, N° 3 July 1991.
- 9 P. Dash, A. Pradham and G. Panda, "Frequency Estimation of Distorted Power System Signals Using Extended Complex Kalman Filter". IEEE Transactions on Power Delivery, vol 14, N° 3, July 1999.

10 Flores, R.A, "State of the Art in the Classification of Power Quality Events, An Overview". Harmonics and Quality of Power, 2002, 10th International Conference on Volume 1, issue, 6-9, pp. 17-20, Oct. 2002.

- Aslam P. Memon, M. Aslam Uqaili, Zubair A. Memon and Asif Ali Akhund, "Time-Frequency Analysis Techniques for Detection of Power 11 System Transient Disturbances," International Journal of Emerging Trends in Electrical and Electronics (IJETEE ISSN: 2320-9569), IRET publication, Vol. 9, pp. 39-44, November 2013.
- 12 Primer, "Introduction to wavelets and wavelet transforms" (Prentice Hall, 1998)
- Daubechies I. "orthogonal bases of compactly supported wavelets", Communications in Pure Applied Math, vol. 41, pp. 909-996, 1988. 13.
- Surya Santoso, Edward J. Powers, W. Mack Grady, Peter Hofmann, "Power Quality Assessment via Wavelet Transform Analysis", IEEE 14 transactions on Power Delivery, Vol. 11, No.2, April 1996.
- S. Santoso, J. P. Edward, W. M. Grady, and A. C. Parsons, "Power Quality Disturbance Waveform Recognition Using Wavelet-Based 15 Neural Classifier-Part 1: Theoretical foundation," IEEE Trans. Power Delivery, Vol.15, pp. 222-228, Feb. 2000.
- B. Boashah, Time-Frequency Signal Analysis and Processing- A Comprehensive Reference (Elsevier, London, 2003). 16
- 17. P. Kailasapathi, D. Sivakumar, "Methods to Analyze Power Quality Disturbances", European Journal of scientific Research, Vol. 47, No. 1, pp. 06-16, 2010.
- F. Sharma, A. K. Sharma, Ajay Sharma and Nirmala Sharma, "Recent Power Quality Techniques, A comparative Study", Canadian Journal of Electrical & Electronics Engineering, Vol. 01, No. 06, pp. 141-148, Oct 2010. 18
- Math H. J. Bollen, Irene Yu-Hua Gu, (2006), Signal Processing Of Power Quality Disturbances, 2nd edition, IEEE Press Series on Power 19. Engineering, Mohamed E. El-Hawary, Series Editor, A John Wiley & Sons, Inc., Publication, May 2006.
- G. Viskadouros, G. stavrakakis and E. Ellinakis, "Power Quality Event Recognition and Classification Using a Wavelet Based Neural 20 Network", Int. Journal of sustainable water and environment Systems, vol. 03, No. 01, pp. 45-52, September 2011.
- Santoso S., Powers E.J., Grady W.M., Parsons A.C., "Power Quality Disturbance Waveform Recognition Using Wavelet Based Neural Classifier- Part 2: Application", IEEE Trans. Power Delivery, Volume 15, No. 1, pp. 229-235, 2000.
- 22 Aslam P. Memon., M. Aslam Uqaili, and Zubair Memon, "Suitable Feed forward Neural Network Automatic Voltage Regulator for Excitation Control System", published Jan-Feb 2014, in Universal Journal of Electrical and Electronic Engineering (UJEEE), Horizon Research Publishing, USA, http://www.hrpub.org.
- Memon, Aslam P., Uqaili, M. Aslam, and Memon, Zubair A., "Design of Feedforward NNAVR for Enhancement of Power System Stability 23 Using Matlab/Simulink," Mehran University Research Journal of Engineering & Technology, Volume. 31, No. 3, pp. 1-8, July, 2012.
- Borras, D., Castilla, M., Moreno, N., & Montano, J.C. (2001), "Wavelet and Neural Structure: A New Tool for Diagnostic of Power System 24. Disturbances," IEEE on Industry Applications, Volume. 37, No. 2, pp. 184-190, Jan. 2001. Zhang, G.P., (2000), ".Neural Networks for Classification: A Survey," IEEE Trans. on Systems, Man, and Cybernetics—Part c: Applications
- 25 and Reviews," Volume. 30, No. 4, pp. 451-462, Nov. 2000.
- Gargoom, A.M., Ertugrul, N., & Soong, W.L. "Automatic Classification And Characterization Of 26.
- Power Quality Events," IEEE Trans. on Power Delivery, Volume 23, No. 2, pp. 2417-2425, Oct. 2008. 27
- Aslam P. Memon., M. Aslam Uqaili, and Zubair Memon, "Suitable Feed forward Neural Network Automatic Voltage Regulator for 28 Excitation Control System", published Jan-Feb 2014, in Universal Journal of Electrical and Electronic Engineering (UJEEE), Horizon Research Publishing, USA, http://www.hrpub.org.
- Aslam P. Memon, A. Sattar Memon, Asif Ali Akhund and Riaz H. Memon, "Multilayer Perceptrons Neural Network Automatic Voltage 29 Regulator With Applicability And Improvement In Power System Transient Stability," International Journal of Emerging Trends in Electrical and Electronics (IJETEE ISSN: 2320-9569), IRET publication, Vol. 9, Issue 1, pp. 30-38, November 2013

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