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S. No	Volume-1 Issue-3, February 2012, ISSN: 2249-8958 (Online) Published By: Blue Eyes Intelligence Engineering & Sciences Publication Pvt. Ltd.		Page No.
	Authors:	Rajesh Kumar, Rituraj Chandrakar	
	Paper Title:	Overview of Green Supply Chain Management: Operation and Environmental Impact at Different Stages of the Supply Chain	
1.	<p>Abstract: This paper emphasizes upon the application of Supply Chain Management and adding the `Green ` component to it so as to stress upon the need of environment friendly systems. The growing importance of GSCM is driven mainly by the escalating deterioration of environment. The waste and emissions caused by the supply chain have become one of the main sources of serious environmental problems including global warming and acid rain. One of the key aspects to green supply chains is to improve both economic and environmental performance simultaneously throughout the chains by establishing long-term buyer–supplier relationships. Efforts have been made by the authors to study the supply chain of the systems with the focus on its optimization and implementation.</p>		
	<p>Keywords: Green supply chain management (GSCM), Environmentally Preferable, Environmental Impact, Reverse logistic, Eco-design (ECO), Investment Recovery (IR).</p>		
	<p>References:</p> <ol style="list-style-type: none"> L. K. Toke, R. C. Gupta, Milind Dandekar. 2010. Green Supply Chain Management; Critical Research and Practices. Proceedings of the 2010 International Conference on Industrial Engineering and Operations Management Dhaka, Bangladesh, January 9 – 10, 2010. Qinghua Zhu, Raymond P. Cote 2004. Integrating green supply chain management into an embryonic eco-industrial development: a case study of the Guitang Group. <i>Journal of Cleaner Production</i> 12 (2004) 1025–1035. Lynn Johansson, 1994. How Can ATQEM Approach Add Value to Your Supply Chain? In <i>Journal Total Quality Environmental Management</i>, pp. 521-530. Beamon, B. (1999). Designing the green supply chain. <i>Logistics Information Management</i>, 12(4), 332-342. C. W. Hsu; A. H. Hu 2008. Green supply chain management in the electronic industry <i>Int. J. Environ. Sci. Tech.</i>, 5 (2), 205-216, Spring 2008 ISSN: 1735-1472. Vasco Sanchez-Rodrigues 2006. 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2.	<table border="1"> <tr> <td data-bbox="119 315 335 360">Authors:</td> <td data-bbox="335 315 1412 360">Ali Akbar Motie Birjandi, Saeed Rahimi Gholami</td> </tr> <tr> <td data-bbox="119 360 335 421">Paper Title:</td> <td data-bbox="335 360 1412 421">Comparison between learning mechanism and pattern presentation techniques in voltage stability assessment</td> </tr> </table> <p>Abstract: In this paper we compare learning mechanism and pattern presentation techniques in voltage stability assessment. In this way we use multilayer perceptron and classifiers models for assessing power system voltage stability margin in unstable point. In this paper we consider voltage magnitudes and phase angles as input and voltage stability margin as target of ANNs. Simulation was carrying out on IEEE-14 bus test system and numerical results show that minimum rule in combination gives better results rather than other models. Also be specified that use learning mechanism lead to better results than apply pattern presentation techniques.</p> <p>Keywords: Artificial Neural Network, Combination of Classifiers, Voltage Stability, Voltage Stability Margin</p> <p>References:</p> <ol style="list-style-type: none"> 1. Debbie.Q.Zhou,U.D.Annakkage,AthulaD.Rajjapakse"onloine voltage stability monitoring of voltage stability margin using an Artificial Neural Network."IEEE Transaction on powersystems,vol 25,No.3,august 2010 2. Gao,Marison G, Kudur P." Toward tht Development of a systemstic approach for voltage stability assessment of Larg-scale power systems". IEEE Trans power Syst 1996; 11(3):1314-23 3. Lof PA, Smed T, Anderson G, Hill DI. " Fast calculation of a voltage stability index". IEEE Trans power Syst 1992;2:54-64. 4. P.Kundur, Power system stability and control. Newyork: Mc Graw-Hill Education,1994. 5. P.J.Abrao, A.P.Aves da silva and A.C.Zambroni desouza,"Rule extraction from artificial neural networks for voltage security analysis",in proc.2002 int.Joint conf. Neural networks(AJCNN'02),May 12-17,2002,vol.3,pp.2126-2131 6. S.Kamalasadana,A.K.Srivastavaand D.Thukaram,"Novel algorithm for online voltage stability assessment basedon feed forward neural network",in proc.IEEE power Eng.soc.General meeting,Jun.18-22,2006. 7. T.M.L. Assis, AR.Nunes, and D.M.Falco," Mid and Long-term voltage stability assessment using neural network and quasi-steady-state simulation",in proc. Power Engineering,2007 Large Engineering systems conf., oct. 10-12, pp. 213-217. 8. T.Van Custem and C.Vournas, "voltage stability of Electric power systems", Norwell, MA:Kluwer, 1998. 9. V.R.Dinavahi and S.C.Srivastava,"Artificial Neural Network based voltage stability margin prediction", inproc.IEEE power Eng.Soc.summer Meeting, jul. 2001, vol.2, pp. 1275-1280 10. Ledesma, P. andJulio Usaol. 2005. "Doubly Fed Induction Generator Model for Transient Stability Analysis".IEEE TRANSACTIONS ON ENERGY CONVERSION. VOL. 20, NO. 2:388-397. 11. Haykin, Simon.1999. Neural Networks: "A Comprehensive Foundation." 2nd edition, Prentice-Hall. 12. Windeatt T, Ghaderi R.1998. "Dynamic Weighting Factors for Decision Combining", Proc. of IEE Int. Conf. On Data Fusion, Great Malvern, UK: 123-130. 	Authors:	Ali Akbar Motie Birjandi, Saeed Rahimi Gholami	Paper Title:	Comparison between learning mechanism and pattern presentation techniques in voltage stability assessment	7-11
Authors:	Ali Akbar Motie Birjandi, Saeed Rahimi Gholami					
Paper Title:	Comparison between learning mechanism and pattern presentation techniques in voltage stability assessment					
3.	<table border="1"> <tr> <td data-bbox="119 1218 335 1263">Authors:</td> <td data-bbox="335 1218 1412 1263">Pratibhadevi Tapashetti, Ankur Gupta, Chandrashekhar Mithlesh, A.S Umesh</td> </tr> <tr> <td data-bbox="119 1263 335 1308">Paper Title:</td> <td data-bbox="335 1263 1412 1308">Design and Simulation of Op Amp Integrator and Its Applications</td> </tr> </table> <p>Abstract: The Integrator is an essential circuit component in any analog circuit that performs mathematical operation of Integration mainly in solving differential equation. The integrator also used as a storage element in analog computing. It is used in that type of circuits where initial condition is of great importance which affects the future calculations. The present study purposes to find the basic use of integrator circuits in engineering design & simulation using the simulation software Edvin Xp. In this paper we have concentrated on the history of opamp development, the basics of opamp, integrator design and simulation and lastly few of the major integrator applications are discussed.</p> <p>Keywords: Operational amplifier (OPAMP), Analog to digital converter (ADC), I/O(input output)</p> <p>References:</p> <ol style="list-style-type: none"> 1. Ramakant A.Gayakwad, "Op-Amps and linear integrated Circuits" 2. A. Younis and M. Hassoun, "A High Speed Fully Differential CMOS Opamp," Proceedings of the IEEE Midwest Symposium on Circuits and Systems, Vol. 2, pp. 780-783, August 2000. 3. National Semiconductor Linear Applications (I and II), published by National Semiconductor 4. National Semiconductor Audio Handbook, published by National Semiconductor IC Op-Amp Cookbook - Walter G Jung (1974), published by Howard W Sams & Co., Inc. ISBN 0-672-20969-1 5. Data sheets from National Semiconductor, Texas Instruments, Burr-Brown, Analog Devices, Philips and many others. 6. AN166 - Basic Feedback Theory, Philips Semiconductors Application Note, Dec 1988 Opamps For Everyone - by Ron Mancini, Editor in Chief, Texas Instruments, Sep 2001 	Authors:	Pratibhadevi Tapashetti, Ankur Gupta, Chandrashekhar Mithlesh, A.S Umesh	Paper Title:	Design and Simulation of Op Amp Integrator and Its Applications	12-19
Authors:	Pratibhadevi Tapashetti, Ankur Gupta, Chandrashekhar Mithlesh, A.S Umesh					
Paper Title:	Design and Simulation of Op Amp Integrator and Its Applications					
4.	<table border="1"> <tr> <td data-bbox="119 1868 335 1912">Authors:</td> <td data-bbox="335 1868 1412 1912">Sita Gupta, Vinod Todwal</td> </tr> <tr> <td data-bbox="119 1912 335 1957">Paper Title:</td> <td data-bbox="335 1912 1412 1957">Web Data Mining & Applications</td> </tr> </table> <p>Abstract: With an enormous amount of data stored in databases and data warehouses, it is increasingly important to develop powerful tools for analysis of such data and mining interesting knowledge from it. Data mining is a process of inferring knowledge from such huge data. The main problem related to the retrieval of information from the World Wide Web is the enormous number of unstructured documents and resources, i.e., the difficulty of locating and tracking appropriate sources. In this article, a survey of the research in the area of web mining and suggest web mining categories and techniques. Furthermore, a presentation of a web mining environment generator</p>	Authors:	Sita Gupta, Vinod Todwal	Paper Title:	Web Data Mining & Applications	20-24
Authors:	Sita Gupta, Vinod Todwal					
Paper Title:	Web Data Mining & Applications					

	<p>that allows naive users to generate a web mining environment specific to a given domain by providing a set of specifications.</p> <p>Application of data mining techniques to the World Wide Web, referred to as Web mining, has been the focus of several recent research projects and papers. However, there is no established vocabulary, leading to confusion when comparing research efforts. The term Web mining has been used in two distinct ways. The first, called Web content mining in this paper, is the process of information discovery from sources across the World Wide Web. The second, called Web usage mining, is the process of mining for user browsing and access patterns. In this paper we define Web mining and present an overview of the various research issues, techniques, and development efforts. We briefly describe WEBMINER, a system for Web usage mining, and conclude this paper by listing research issues.</p> <p>Keywords: Data, Mining, Warehouse Web</p> <p>References:</p> <ol style="list-style-type: none"> 1. Introduction to Data Mining and Knowledge Discovery, Third Edition ISBN: 1-892095-02-5, Two Crows Corporation, 10500 Falls Road, Potomac, MD 20854 (U.S.A.), 1999. 2. Larose, D. T., "Discovering Knowledge in Data: An Introduction to Data Mining", ISBN 0-471-66657-2 3. John Wiley & Sons, Inc, 2005 Han, J., Kamber, M. (2001) Data Mining: Concepts and Techniques, Morgan Kaufmann. Jain, A.K., Murty, M.N., Flynn, P.J. (1999) Data Clustering: A Review, ACM Computing Surveys, 31,3:264-323. 4. Salton, G. (1989) Automatic Text Processing: the Transformation, Analysis, and Retrieval of Information by Computer, Addison-Wesley, Reading. 5. Salton, G., Wong, A., Yang C.S.A. (1975) Vector Space Model for Automatic Indexing, Communications of the ACM, 18: 613-620. 6. Dunham, M. H., Sridhar S., "Data Mining: Introductory and Advanced Topics", Pearson Education, New Delhi, ISBN: 81-7758-785-4, 1st Edition, 2006. 	
5.	<p>Authors: K. M. Pandey, Upendra Kumar, Subho Deb Verma</p>	
	<p>Paper Title: CFD Analysis of Flow Field inside the Expansion Chamber of Internal Combustion Engines</p>	
	<p>Abstract: Noise is a disturbance to the human environment that is escalating at such a high rate that it will become a major threat to the quality of human lives. There are numerous effects on the human environment due to the increase in noise pollution. In the present Paper, the causes and effects of noise pollution is presented. for 15m/s considering four different models of silencer through which exhaust gas passes at different velocities in atmosphere. The analysis carried with commercial package fluent software. The design of these models was carried out using Gambit. Flow is observed at different conditions. Different parameters like turbulent kinetic energy, turbulent viscosity, turbulent dissipation rate, velocity magnitude, static pressure and dynamic pressure were analyzed. It is seen that near the source the noise is more, it decreases with increases the distance between source and observer So it is observed that muffler is also one of the major factors for noise reduction.</p> <p>Keywords: Muffler, Silencer, Exhaust Pipes, Velocity, Noise pollution.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Yu-JiaZhai and Ding-LiYu "Neural network model-based automotive engine air/fuel ratio control and robustness evaluation" Engineering Applications of Artificial Intelligence 22 (2009) 171–180. Control Systems Research Group, Liverpool John Moores University, UK. 2. Giorgio Zamboni, Massimo Capobianco, Enrico Daminelli "Atmospheric Environment", Volume 43, Issue 5, February 2009, Pages 1086-1092. 3. Thilo Bein et. al. "Aerospace Science and Technology, Volume 12, Issue 1, January 2008, Pages 62-73. 4. Amundsen, R. and Klæboe, A. Fyhri "Atmospheric Environment, Volume 42, Issue 33, October 2008, Pages 7679-7 688. 5. Fredrik Ostman, Hannu T. Toivonen "Active torsional vibration control of reciprocating engines" Control Engineering Practice 16 (2008) 78–88, Faculty of Technology, Faculty of Technology, Abo Akademi University, FIN-20500, Abo, Finland. 6. R. Stevens, P. Ewart, H. Mab, C.R. Stoneb. "Measurement of nitric oxide concentration in a spark-ignition engine using degenerate four-wave mixing." Combustion and Flame 148 (2007) 223–233, University of Oxford, Oxford, OX1 3PU, UK 7. Antonio Borghese and Simona S. Nerola "Detection of extremely fine carbonaceous particles in the exhausts of diesel and spark-ignited internal combustion engines, by means of broad-band extinction and scattering spectroscopy in the ultraviolet band 190-400 nm", Twenty-seventh symposium (international) on combustion/the combustion institute, 1998/pp. 2101–2109, Instituto Motori, Cnr via Marconi 8, 80125 Napoli, Italy. 8. M.M. Etefagh, M.H. Sadeghi, V. Pirouzpanah and H. Arjmandi Tash. "Knock detection in spark ignition engines by vibration analysis of cylinder block: A parametric modeling approach" Mechanical Systems and Signal Processing 22 (2008) 1495–1514, Laboratory of Vibration and Modal Analysis, Department of Mechanical Engineering, University of Tabriz, Tabriz 51666, Iran. 9. Manfred-Andreas Beeck and Werner Hentschel "Laser metrology a diagnostic tool in automotive development processes", Optics and Lasers in Engineering 34 (2000) 101}120, Volkswagen AG, Research and Development, 38436 Wolfsburg, Germany. 	25-29
6.	<p>Authors: P Bose, K M Pandey</p>	
	<p>Paper Title: Analysis of Thrust Coefficient in a Rocket Motor</p>	
	<p>Abstract: In motors of artillery rockets and anti tank missiles solid propellant is used to provide high thrusts for short period of time. On fixing of propellant composition and its grain geometry nozzle design becomes the controlling factors for optimum performance of rocket. Thrust coefficient is one of the most important parameters for its performance. It is the thrust per unit chamber pressure and throat area. It is a dimensionless multiplication factor and signifies the degree to which the thrust is amplified by the nozzle. It is a function of gas property i.e. specific heat ratio of the gas and other thermodynamic parameters. It is also a function of nozzle geometry i.e. expansion ratio and pressure ratio. It is highest when the nozzle expands the gases exactly down to ambient pressure at the exit plane. However, thrust coefficient is independent of chamber pressure. In this paper thrust coefficient is analysed as a function of expansion ratio at three different values of specific heat ratio. It is observed that flow separation typically occurs when the ratio of exit pressure to atmospheric pressure is less than 0.25 to 0.35 and thus kept less than 0.40. Thrust coefficient losses are due to divergence of the flow at the nozzle exit, skin friction losses, two-phase flow and also propellant performance. These are minimized by developing proper propellant and designing suitable nozzle.</p>	30-33

	<p>However, the losses cannot be brought down to zero. The paper analyses the various parameters that affect the thrust coefficient and brought out methods to improve the performance of solid rocket motor.</p> <p>Keywords: Flow separation, Nozzle throat area, Propellant, Rocket motor, Thrust coefficient.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Edwin D Brown, Model rocket engine performance, Technical notes of ESTES Industries, Colorado, USA, 2. 2. Nakka R A, Grain design and performance evaluation, Solid Propellant Rocket Motor – Design and Testing by Richard Allan, pp. 1-3, (1984). 3. HMSO, Thrust coefficient analysis, Text Book of Ballistics and Gunnery, vol. 2, 1986, pp. 79-81. 4. Yahya S M, Relation of thrust coefficient with specific heat ratio, Fundamentals of Compressible Flow with aircraft and Rocket Propulsion, 2006, pp. 234-337. 5. AMCP Pamphlet, Sources of energy, Elements of Armament Engineering, vol. 1, 1979, pp. 321-322. 6. Sutton G P and Biblarz O, Rocket nozzle, Rocket propulsion elements, 1982, pp. 156-157. 7. Royal Military College of Science, Minimising losses in rocket nozzle, The handbook of Artillery weapons, 1984, pp. 298-299. 8. www.lr.tudelft.nl/live/pagina.jsp 9. www.456fis.org/THE BLACKBIRD AND NASA 10. www.nakka-rocketry.net 11. www.rimworld.com 12. www.aerospaceweb.org 	
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	<p>Authors: Vinay Kumar Nassa, Sri Krishan Yadav</p>	
	<p>Paper Title: Project Management Efficiency –A Fuzzy Logic Approach</p>	
7.	<p>Abstract: Fuzzy logic is a relatively new technique for solving engineering control problems. This technique can be easily used to implement systems ranging from simple, small or even embedded up to large. The objective of this paper is to present an approach that utilizes a fuzzy decision making system (FDMS) to quantify the Project Management Efficiency (PME). The algorithm developed in this paper is based upon fuzzy logic, giving it the ability to solve complex problems plagued with uncertainty and vagueness. A fuzzy decision making system is designed and implemented using the MATLAB Fuzzy Logic tool box for the evaluation of the PME. This algorithm once refined to each area under the industry of software development can be used for subsequent projects, saving large percentages of time, money, and effort, without sacrificing quality</p> <p>Keywords: Project management efficiency; Fuzzy decision making system; Fuzzy sets; Project time delay; Project time delay gradient.</p> <p>References:</p> <ol style="list-style-type: none"> 1. A. Kandel, Fuzzy Expert Systems, CRC PRESS, Boca Raton, FL, 1992. 2. B. W. Boehm, "Software Engineering Economics", Prentice-Hall, Englewood Cliffs, New Jersey, 1981. 3. C. Jones, "Applied Software Measurement: Assuring Productivity and Quality", McGraw-Hill, New York, 1991. 4. C. Lee, Fuzzy logic in control systems: fuzzy logic parts I, II, IEEE Transactions on Systems, Man, and Cybernetics 20 (1990) 404. 5. D.H Kitson and S. Masters, "An Analysis of SEI Software Process Results 1987-1991.", Proc. 15th International Conference on Software Engineering, pp 68-77, 1993. 6. D.Merrill,"Software Development Project Managers with a Software Project Simulator" Master of Science Thesis Proposal,Department of Computer Science and Engineering Arizons State University Training Feb 4,1996. 7. F. Dweiri, Fuzzy development of crisp activity relationship charts for facilities layout, Computers and Industrial Engineering 36 (1999) 1 – 16. 8. H. Yang, C.J. Anumba, J. Kamara, P. Carrillo, A fuzzy-based analytic approach to collaborative decision making for construction teams, Logistics Information Management 14 (5/6) (2001) 344–354. 9. L.A. Zadeh, The role of fuzzy logic in the management of uncertainty in expert systems, Fuzzy Sets and System 11 (1983). 10. R.D. Archibald, Managing High-Technology Programs and Projects, John Wiley, New York, 1976. 	34-38

	<p>Authors: Trinadh Balaga, B.Bhaskar Rao</p>	
	<p>Paper Title: 1D Discrete Cosine Transform Using Distributed Algorithm</p>	
8.	<p>Abstract: Discrete Cosine Transform (DCT) , which is an important component of image and video compression, is adopted in various standardized coding schemes, such as JPEG, As the ongoing demand increases, for better compression performance of the latest video coding standard, the H.264/AVC (Advanced Video Coding) is formulated .The H.264/AVC is also known as MPEG-4 .An advantage of the H.264/AVC is the simplicity of its transform. Distributed Arithmetic (DA) is an effective method for computing inner products when one of the input vectors is fixed. It uses pre computed look-up tables and accumulators instead of multipliers for calculating inner products and has been widely used in many DSP applications such as DFT, DCT, convolution, and digital filters. In particular, there has been great interest in implementing DCT with parallel distributed arithmetic and in reducing the ROM size required in the implementations since the DA-based DCT architectures are known to have very regular structures suitable for VLSI implementations. Low hardware circuit cost as well as low power consumption. Low hardware cost is achieved by exploiting redundant computational units and a technique to reduce error introduced by sign extension is also presented. The results indicate the considerable power as well as hardware savings in presented architecture.</p> <p>Keywords: Distributed Arithmetic (DA), JPEG, Discrete Cosine Transform (DCT), MPEG.</p> <p>References:</p> <ol style="list-style-type: none"> 1. T. Acharya and P. Tsai, "JPEG2000 Standard for Image Compression: Algorithms and VLSI Architectures" J. Wiley & sons. NJ, 2005. 2. Gregory K. Wallace, "The JPEG Still Picture Compression Standard," 	39-43

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9.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Authors:</td> <td>Arvind Vishnubhatla</td> </tr> <tr> <td>Paper Title:</td> <td>Hand Held Unit for Imaging</td> </tr> </table> <p>Abstract: We implement Terahertz imaging arrays to get synthetic aperture imaging data. As the data rates are extremely high we have designed a custom processor for an unmanned vehicle taking due care of weight and DC power restrictions.</p> <p>Keywords: We implement Terahertz imaging arrays to get synthetic aperture imaging data.</p> <p>References:</p> <ol style="list-style-type: none"> 1. FlightGear, [online], Available: http://flightgear.org, September 2005, (Accessed September 2005). 2. Microsoft Corporation, "Microsoft Flight Simulator SDK", [online], Available: http://www.microsoft.com/games/flightsimulator/fs2004_downloads_sdk.asp, 2005, (Accessed April 2005). 3. MicroPilot, [online], Available: http://www.micropilot.com, 2005, (Accessed April 2005). 4. Autodesk, [online], Available: http://www.discreet.com, 2005, (Accessed May 2005). 5. Microsoft Corporation, "Texture Filtering with Mipmaps", [online], Available: http://msdn.microsoft.com, 2004, (Accessed June 2005). 6. Australian Government Geoscience Australia, [online], Available: http://www.ga.gov.au, July 2005, (Accessed September 2005). 7. Monash Aerobotics, [online], Available: http://www.ctie.monash.edu.au/hargrave/aerobotics.html, 2002, 	Authors:	Arvind Vishnubhatla	Paper Title:	Hand Held Unit for Imaging	44-48
Authors:	Arvind Vishnubhatla					
Paper Title:	Hand Held Unit for Imaging					
10.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Authors:</td> <td>Anshul Singh, Devesh Narayan</td> </tr> <tr> <td>Paper Title:</td> <td>A Survey on Hidden Markov Model for Credit Card Fraud Detection</td> </tr> </table> <p>Abstract: Credit card frauds are increasing day by day regardless of the various techniques developed for its detection. Fraudsters are so expert that they engender new ways for committing fraudulent transactions each day which demands constant innovation for its detection techniques as well. Many techniques based on Artificial Intelligence, Data mining, Fuzzy logic, Machine learning, Sequence Alignment, decision tree, neural network, logistic regression, naïve Bayesian, Bayesian network, metalearning, Genetic Programming etc., has evolved in detecting various credit card fraudulent transactions. A steady indulgent on all these approaches will positively lead to an efficient credit card fraud detection system. This paper presents a survey of various techniques used in credit card fraud detection mechanisms and Hidden Markov Model (HMM) in detail. HMM categorizes card holder's profile as low, medium and high spending based on their spending behavior in terms of amount. A set of probabilities for amount of transaction is being assigned to each cardholder. Amount of each incoming transaction is then matched with card owner's category, if it justifies a predefined threshold value then the transaction is decided to be legitimate else declared as fraudulent.</p> <p>Keywords: Credit card, fraud detection, Hidden Markov Model, online shopping</p> <p>References:</p> <ol style="list-style-type: none"> 1. Credit card fraud detection using hidden Markov Model. Abhinav Srivastava, Amlan Kundu, Shamik Sural and Arun K. Majumdar. 2008, Vol. 5. 2. ONLINE CREDIT CARD FRAUD PREVENTION SYSTEM FOR DEVELOPING COUNTRIES. Rehab Anwer, Shiraz Baig, Dr. Malik Sikandar Hayat Khiyal, Aihab Khan & Memoona Khanum. 2009-2010. 3. HMM-based Integration of Multiple Models for Intrusion Detection. Chen Xiuqing, Zhang Yongping, Tang Jiutao. 2010. 4. "CARDWATCH: A Neural Network Based Database Mining System for Credit Card Fraud Detection. E. Aleskerov, B. Freisleben, and B. Rao. 1997, pp. 220-226. 5. Minority Report in Fraud Detection: Classification of Skewed Data. C. Phua, D. Alahakoon, and V. Lee. 2004. 6. Distributed Data Mining in Credit Card Fraud Detection. W. Fan, A.L. Prodromidis, and S.J. Stolfo. 1999. 7. A Web Services-Based Collaborative Scheme for Credit Card Fraud Detection. Tsai, C. Chiu and C. 2004. 8. Association rules applied to credit card fraud detection. D. Sánchez, M.A. Vila, L. Cerda, J.M. Serrano. 2009. 9. Neural Data Mining for Credit Card Fraud Detection. R. Brause, T. Langsdorf, and M. Hepp. 1999. 	Authors:	Anshul Singh, Devesh Narayan	Paper Title:	A Survey on Hidden Markov Model for Credit Card Fraud Detection	49-52
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	<p>Authors: Rashmi Mishra, Baibaswata Mohapatra</p> <p>Paper Title: Performance Evaluation of OFDM System</p> <p>Abstract: Orthogonal frequency division multiplexing (OFDM) is a special segment of multi carrier transmission system, which has found its application in numerous wire-less and wired systems. In an OFDM scheme, a large number of orthogonal, overlapping, narrow band sub-channels or subcarriers, transmitted in parallel, divide the available transmission bandwidth. The separation of the subcarriers is theoretically minimal, so that there is a very compact spectral utilization. This paper presents the overview and then the performance evaluation results of an OFDM system, in terms of BER. The results presented in the paper are based on computer simulations performed using MATLAB; a highly efficient tool for different applications.</p> <p>Keywords: OFDM, BER</p> <p>References:</p> <ol style="list-style-type: none"> 1. A. N. Akansu, and L. Xueming, A comparative performance evaluation of DMT (OFDM) and DWMT (DSBMT) based DSL communications systems for single and multitone interference, in Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing, 1998. 2. J S. Baig, F. U. Rehman, and M. J. Mughal, Performance comparison of DFT, discrete wavelet packet and wavelet transforms, in an OFDM transceiver for multipath fading channel, in Proceedings of 9th International Multitopic Conference, INMIC'05, 2005, pp. 1-6. 3. F. Farrukh, S. Baig, and M. J. Mughal, Performance comparison of DFT-OFDM and wavelet-OFDM with zeroforcing equalizer for FIR channel equalization, in Proceedings of International Conference Electrical Engineering, ICEE'07, 2007, pp. 1-5. 4. U. S. Jha, and R. Prasad, OFDM towards Fixed and Mobile Broadband Wireless Access, Artechhouse, 2007. 5. J D. Karamehmedovic, M. K. Lakshmanan, and H. Nikookar, Performance of wavelet packet modulation and OFDM in the presence of carrier frequency and phase noise, in Proceedings of the 1st European Wireless Technology Conference, EuMA'08, Amsterdam, The Netherlands, 2008, pp. 166-169. 6. M. K. Lakshmanan, and H. Nikookar, A review of wavelets for digital wireless communication, Springer Journal on Wireless Personal Communication, vol. 37, no. 3-4, pp. 387-420, 2006. 7. R. S. Manzoor, R. Gani, V. Jeoti, N. Kamel, and M. Asif, Implementation of FFT using discrete wavelet packet transform (DWPT) and its application to SNR estimation in OFDM systems, IEEE International Symposium on Information Technology, Kuala Lumpur, Malaysia, 2008. 8. Michael Weeks, Digital Signal Processing Using MATLAB and Wavelets. Infinity Science Press LLC, 2007. 9. R. van Nee, and R. Prasad, OFDM for Wireless Multimedia Communications. London: Artech House Publishers,2000. 10. H. M. Newlin, Developments in the Use of Wavelets in Communication Systems. Sunnyvale, California: TRW Systems & Information Technology Group. 11. S. B. Weinstein, and P. M. Ebert, Data transmission by frequency division multiplexing using the discrete Fourier transform, IEEE Transactions on Communication Technology, vol. 19, no. 5, pp. 628-634, 1971. 12. H. Zhang, D. Yuan, M. Jiang, and D. Wu, Research of DFT-OFDM and DWT-OFDM on different transmission scenarios, in Proceedings of ICITA'04, 2004, pp. 31-33. 	53-56
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	<p>Authors: Sapna Sharma, Gajendra Singh Chandel</p> <p>Paper Title: Implementation of P2P network for search algorithm</p> <p>Abstract: A peer-to-peer, commonly abbreviated to P2P, is any distributed network architecture composed of participants that make a portion of their resources (such as processing power, disk storage or network bandwidth) directly available to other network participants, without the need for central coordination instances (such as servers or stable hosts). Peers are both suppliers and consumers of resources, in contrast to the traditional client-server model where only servers supply, and clients consume.</p> <p>In a P2P network which employs the use of a purely decentralized design, and where everyone participates equally in the network as both a client and a server. Machines were assumed to be always switched on, always connected and assigned permanent IP.</p> <p>In this paper, we propose the Modified Search algorithm to improve the search efficiency of unstructured P2P networks by giving higher querying priority to peers with high querying reply capabilities which is based on bandwidth, locality, reliability and quantity of available data. We categorized all peers based on their performance in the network. Our experiment shows that the Modified Search algorithm can improve the search efficiency without resorting to index operations. Our simulation shows that the Modified Search algorithm increases the efficiency of</p>	57-60
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	<p>network from 20 to 89.28 percent.</p> <p>Keywords: Unstructured P2P Network, Search Algorithm, Opnet Simulator</p> <p>References:</p> <ol style="list-style-type: none"> 1. Yu Jin Yan Liu Hongwu Zhao "Trust-based super node selection in peer-to-peer systems" Future Computer and Communication IC FCC, 2010 2nd International Conference on, Wuhan, 21-24 May 2010 2. Wang Ping Qiu Jing Qiu Yu Hui" A Search Algorithm Based on Referral Trust in Unstructured P2P Systems" Electronic Commerce and Security, 2009. ISECS' 09, Second International Symposium on, Nanchang, 22-24 May 2009 3. Fuyong Yuan Jian Liu Chunxia Yin" A Scalable Search Algorithm on Unstructured P2P Networks" Software Engineering, Artificial Intelligence, Networking, and Parallel/Distributed Computing 2007, SNP D 2007, Eighth ACIS International Conference, Qingdao, July 30 2007-Aug. 1 2007 4. Chen Wang Li Xiao" An Effective P2P Search Scheme to Exploit File Sharing Heterogeneity", Parallel and Distributed Systems, IEEE Transactions on, Michigan, Feb. 2007 5. Qian Su Xuejie Zhang "A Peer-to-Peer Resources Search Algorithm Based on Small-World Model", Communications, Circuits and Systems Proceedings, 2006 International Conference, Guilin, 25-28 June 2006, pp: 1557 – 1561 6. L. A. Adamic, R. M. Lukose, and B. A. Huberman, "Local search in unstructured networks," Review chapter to appear in Handbook of Graphs and Networks: From the Genome to the Internet, S. Bornholdt and H.G. Schuster (eds.), Wiley-VCH, Berlin, 2004. 7. S. Androutsellis-Theotokis and D. Spinellis. "A survey of peer-to-peer content distribution technologies," ACM Computing Surveys, 36(4):335371, December 2003 8. D. S. Bernstein, Z. Feng, B. N. Levine, and S. Zilberstein. "Adaptive Peer Selection," Proceedings of the 2nd International Workshop on Peer-to-Peer Systems (IPTPS), Berkeley, California, February 2003. 9. BitTorrent. http://www.bittorrent.com/. 10. E. Cohen and S. Shenker. "Replication Strategies in Unstructured Peer-to-Peer Networks." Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications (ACM Sigcomm 2002), pp. 61-72, 2002. 11. S. El-Ansary, L. O. Alima, P. Brand, and S. Haridi, "Efficient broadcast in structured P2P networks," 2nd International Workshop on Peer-to-Peer Systems (IPTPS '03), Berkeley, CA, February 2003. 12. A. C. Fuqua, T. Ngan, and D. S. Wallach. "Economic Behavior of Peer-to-Peer Storage Networks," Workshop on Economics of Peer-to-Peer Systems (Berkeley, California), June 2003. 13. M. Gupta, P. Judge, and M. Ammar. "A Reputation System for Peer-to-Peer Networks." In Proceedings of the NOSSDAV'03 Conference, Monterey, CA, June 1-3 2003. pp 67 14. D. Qiu and R. Srikant. "Modeling and Performance Analysis of BitTorrent- Like Peer-to-Peer Networks," Proceedings of ACM SIGCOMM, Portland, Oregon, September 2004. 15. Yamamoto, S., Nakao, A., "In-network P2P packet cache processing using scalable P2P network test platform", Peer-to-Peer Computing (P2P), 2011 IEEE International Conference on Aug. 31 2011-Sept. 2 2011 , pp 162-163 16. Dai Bin, Wang Furong and Tian Yun, "Improvement of Network Load and Fault-Tolerant of P2P DHT Systems", Information Technology: Research and Education, 2006, ITRE'06. International Conference on 16-19 Oct.2006, pp 187-190 17. Weimin Luo, Jingbo Liu and Jialiang Xu, "An analysis of propagation and capability to attack of active P2P worms", Computer Science and Information Technology (ICCSIT), 2010 3rd IEEE International Conference on 9-11 July 2010, pp 506-509 18. Cuihua Zuo, Hongcai Feng and Cao Yuan, "Key-peers based topology control for unstructured P2P networks", Future Computer and Communication (ICFCC), 2010 2nd International Conference on 21-24 May 2010, pp V3-114 -V3-118. 19. Peng Zeng, "A probability caching model in hybrid P2P information dissemination", Computer Science and Service System (CSSS), 2011 International Conference on 27-29 June 2011, pp 3818 - 3821. 20. Feldmann, A., "A possibility for ISP and P2P collaboration", Broadband Communications, Networks and Systems, 2008.BROADNETS 2008. 5th International Conference on 8-11 Sept. 2008, pp 239. 					
13.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Authors:</td> <td>R. M. Potdar, Anup Mishra, Vinni Sharma, Tripti Roy</td> </tr> <tr> <td>Paper Title:</td> <td>Performance Evaluation of Different Adaptive Filtering Algorithms for Reduction of Heart Sound from Lung Sound</td> </tr> </table> <p>Abstract: Auscultation is the most important and effective clinical technique for evaluating a patient's respiratory function. Auscultation of the chest is a diagnostic method used by physicians, owing to its simplicity and noninvasiveness. Hence, there is interest in lung sound analysis using time and frequency domain techniques to increase its usefulness in diagnosis. This proposed work is focused on the application of adaptive filtering technique to separate heart sound signal from lung sound signal. Lung sound signal measurements are taken to aid in the diagnosis of various diseases. The aim of this proposed work is to filtering heart sounds from lung sounds. In medicine this separation is made by doctors individually. This may lead to some errors in listening the lung sounds. The method we will use during this separation process is adaptive filtering. We will use Matlab basically while doing mathematical calculations and filtering methods.</p> <p>Keywords: Auscultation, lung sound, heart sound, adaptive filtering, different adaptive algorithms.</p> <p>References:</p> <ol style="list-style-type: none"> 1. F. Dalmay, M.T. Antonini, P. Marquet, R. Menier, "Acoustic properties of the normal chest", European Respiratory Journal, 8, pp. 1761–1769, 1995. 2. Thato Tsalaila and Sa'ed Sanei, " Separation of Heart Sound Signal From Lung Sound Signal by Adaptive Line Enhancement", 15th European Signal Processing Conference, Poznan, Poland, pp. 1231 – 1235, September 2007. 3. J. Gnitecki, Z. Moussavi, H. Pasterkamp, " Recursive Least Square Adaptive Noise Cancellation Filtering for Heart Sound Reduction in Lung Sounds Recordings", EMBC IEEE pp. 2416 – 2419, 2003. 4. Vijay K. Iyer, P. A. Ramamoorthy, Hong Fan, Yongyudh Ploysongsang, " Reduction of Heart Sounds from Lung Sounds by Adaptive Filtering", IEEE Transactions on Biomedical Engineering, Volume 33, No. 12, pp. 1141 – 1148, December 1986. 5. Yang- Sheng Lu, Wen- Hui Liu, Guang- Xia Qin, " Removal of The Heart Noise From The Breath Sound", IEEE Engineering in Medical & Biology Society 10th Annual International Conference, pp. 175 – 176, 1988. 6. M. Varanini, M. Emdin, F. Allegri, M. Raciti, F. Conforti, A. Macerata, A. Taddei, R. Francesconi, G. Kraft, A. L. Abbate, C. Marchesi, " Adaptive Filtering of ECG Signal for Deriving Respiratory Activity", IEEE, 1991. 7. Mohamed A. Abdulgamid, Dean J. Krusienski, Siddharth Pal, and William K. Jenkins, " Principles of Adaptive Noise Canceling", Annual Research Journal, Volume II, 2004. 8. Ying He, Hong He, Li Li, Yi Wu, Hongyan Pan, " The Applications and Simulation of Adaptive Filter in Noise Canceling", International Conference on Computer Science and Software Engineering IEEE, 2008. 	Authors:	R. M. Potdar, Anup Mishra, Vinni Sharma, Tripti Roy	Paper Title:	Performance Evaluation of Different Adaptive Filtering Algorithms for Reduction of Heart Sound from Lung Sound	61-67
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Authors:	Rubeena Mirza, Vinti Nanda					

	Paper Title: Paper Currency Verification System Based on Characteristic Extraction Using Image Processing
	<p>Abstract: Over the past few years, as a result of the great technological advances in color printing, duplicating and scanning, counterfeiting problems have become more and more serious. In the past, only the printing house has the ability to make counterfeit paper currency, but today it is possible for any person to print counterfeit bank notes simply by using a computer and a laser printer at home. Therefore the issue of efficiently distinguishing counterfeit banknotes from genuine ones via automatic machines has become more and more important. Counterfeit notes are a problem of almost every country but India has been hit really hard and has become a very acute problem. There is a need to design a system that is helpful in recognition of paper currency notes with fast speed and in less time. This proposed system describes an approach for verification of Indian currency banknotes. The currency will be verified by using image processing techniques. The approach consists of a number of components including image processing, edge detection, image segmentation, characteristic extraction, comparing images. The image processing approach is discussed with MATLAB to detect the features of paper currency. Image processing involves changing the nature of an image in order to improve its pictorial information for human interpretation. The image processing software is a collection of functions that extends the capability of the MATLAB numeric computing environment. The result will be whether currency is genuine or counterfeit.</p> <p>Keywords: Characteristic Extraction, Counterfeit Detection, Image Processing, Paper Currency Verification.</p> <p>References:</p> <ol style="list-style-type: none"> 1. G. Trupti Pathrabe, Mrs.Swapnili Karmore, "A Novel Approach of Embedded System for Indian Paper Currency Recognition", International Journal of Computer Trends and Technology- May to June Issue 2011, ISSN: 2231-2803. 2. M. Tanaka, F. Takeda, K. Ohkouchi, Y. Michiyuk "Recognition of Paper Currencies by Hybrid Neural Network", IEEE Transactions on Neural Networks", 0-7803-4859-1/98, 1998. 3. Ji Qian, Dongping Qian, Mengjie Zhang "A Digit Recognition System for Paper Currency Identification Based on Virtual Instruments" IEEE Transactions, 1-4244-0555-6/06,2006. 4. H. Hassanpour ,A. Yaseri, G. Ardeshiri "Feature Extraction for Paper Currency Recognition", IEEE Transactions, 1-4244-0779-6/07,2007. 5. Junfang Guo, Yanyun Zhao, Anni Cai, "A Reliable Method for Paper Currency Recognition Based on LBP",IEEE Transactions, Proceedings of IC-NIDC2010, 978-1-4244-6853-9/10. 6. Nadim Jahangir, Ahsan Raja Chowdhury, "Bangladeshi Banknote Recognition by Neural Network with Axis Symmetrical Masks", IEEE Transactions, 1-4244-1551-9/07. 7. Ms. Trupti Pathrabe, Dr. N.G Bawane "Feature Extraction Parameters for Genuine Paper Currency Recognition & Verification" International Journal of Advanced Engineering Sciences and Technologies", Vol No. 2, Issue No. 1, 085 – 089, 2011. 8. Fumiaki Takeda, Sigeru Omatu "High Speed Paper Currency Recognition by Neural Network" IEEE Transactions on Neural Networks, Vol. 6, No. 1, January 1995. 9. Chin-Chen Chang, Tai-Xing Yu, Hsuan-Yen Yen "Paper Currency Verification with Support Vector Machines", IEEE Computer Society, 978-0-7695-3122-9/08, 2008. 10. Sigeru Omatu, Michifumi Yoshioka, Yoshihisa Kosaka "Bank Note Classification Using Neural Networks", IEEE Transactions, 1-4244-0826-1/07,2007. 11. Rajesh Kannan Megalingam, Prasanth Krishna, Pratheesh somarajan, Vishnu A Pillai, Reswan Hakkim "Extraction of License Plate Region in Automatic License Plate Recognition", International Conference on Mechanical and Electrical Technology, IEEE Transactions, 978-1-4244-8102-6/10 12. Woods, Gonzalez and Eddins(2005), Digital Image Processing Using MATLAB (Low Price Edition). 13. Woods and Gonzalez (2008), Digital Image Processing (Third Edition), Pearson Education, New Delhi, 110092.
	Authors: Komal Shah, Amit Thakkar, Amit Ganatra
	Paper Title: A Study on Association Rule Hiding Approaches
15.	<p>Abstract: In recent years, data mining is a popular analysis tool to extract knowledge from collection of large amount of data. One of the great challenges of data mining is finding hidden patterns without revealing sensitive information. Privacy preservation data mining (PPDM) is answer to such challenges. It is a major research area for protecting sensitive data or knowledge while data mining techniques can still be applied efficiently. Association rule hiding is one of the techniques of PPDM to protect the association rules generated by association rule mining. In this paper, we provide a survey of association rule hiding methods for privacy preservation. Various algorithms have been designed for it in recent years. In this paper, we summarize them and survey current existing techniques for association rule hiding.</p> <p>Keywords: Association Rule Hiding, Data Mining, Privacy Preservation Data Mining.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Aris Gkoulalas–Divanis; Vassilios S. Verykios "Association Rule Hiding For Data Mining" Springer, DOI 10.1007/978-1-4419-6569-1, Springer Science + Business Media, LLC 2010 2. M. Atallah, E. Bertino, A. Elmagarmid, M. Ibrahim, and V. S. Verykios "Disclosure limitation of sensitive rules," In Proc. of the 1999 IEEE Knowledge and Data Engineering Exchange Workshop (KDEX'99), pp. 45–52, 1999. 3. Vassilios S. Verykios, A.K. Elmagarmid, E. Bertino, Y. Saygin, and E. Dasseni, "Association Rule Hiding," IEEE Transactions on Knowledge and Data Engineering, vol. 16, no. 4, pp. 434–447, 2004. 4. Shyue-Liang Wang; Bhavesh Parikh; Ayat Jafari, "Hiding informative association rule sets", ELSEVIER, Expert Systems with Applications 33 (2007) 316–323,2006 5. Shyue-Liang Wang; Dipen Patel ;Ayat Jafari ;Tzung-Pei Hong, "Hiding collaborative recommendation association rules", Published online: 30 January 2007, Springer Science+Business Media, LLC 2007 6. Shyue-Liang Wang; Rajeev Maskey; Ayat Jafari; Tzung-Pei Hong " Efficient sanitization of informative association rules" ACM , Expert Systems with Applications: An International Journal, Volume 35, Issue 1-2, July, 2008 7. Chih-Chia Weng; Shan-Tai Chen; Hung-Che Lo, "A Novel Algorithm for Completely Hiding Sensitive Association Rules", IEEE Intelligent Systems Design and Applications, 2008.,vol 3, pp.202-208, 2008 8. Modi, C.N.; Rao, U.P.; Patel, D.R., "Maintaining privacy and data quality in privacy preserving association rule mining", IEEE 2008 Seventh International Conference on Machine Learning and Applications, pp 1-6, 2010 9. Stanley R. M. Oliveira; Osmar R. Zanone, "Privacy Preserving Frequent Itemset Mining", IEEE International Conference on Data Mining

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Authors:	Shraddha Modi, Amit Thakkar, Amit Ganatra
Paper Title:	A Survey on Approaches of Multirelational Classification Based On Relational Database

Abstract: Classification is an important task in data mining and machine learning, in which a model is generated based on training dataset and that model is used to predict class label of unknown dataset. Today most real-world data are stored in relational databases. So to classify objects in one relation, other relations provide crucial information. Relational databases are the popular format for structured data which consist of tables connected via relations (primary key/ foreign key). So relational databases are simply too complex to analyse with a propositional algorithm of data mining. To classify data from relational database need of multi relational classification arise which is used to analyze relational database and used to predict behaviour and unknown pattern automatically which include credit card fraud detection, disease diagnosis system, financial decision making system, information extraction and face recognition applications. This paper presents survey of different approaches to classify data from multiple relations, which includes Flattening based approach, Upgrading approach and Multiple view based approach.

Keywords: Inductive logic programming, Multi relational classification, Multiple view, Multi-view, Relational database, Selection graph, Tuple id propagation.

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17.	Authors:	B. Muthukumar, S. Ravi
	Paper Title:	Face Recognition using Random Projection with Neural Network
	Abstract: In the domain of face recognition, many methods are used to reduce the dimensionality of the subspace in which faces are presented. Recently, Random Projection (RP) has emerged as a powerful method for dimensionality reduction. It represents a computationally simple and efficient method that preserves the structure of the data without introducing very significant distortion. Our focus in this paper is to investigate the dimensionality reduction offered by RP and perform an artificial intelligent system for face recognition using back propagation neural network. Experiments show that projecting the data onto a random lower-dimensional subspace yields results and give an acceptable face recognition rate.	
Keywords: Dimensionality reduction; Face Recognition; Sparse Random Projection; neural network.		
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18.	Authors:	B. Muthukumar, S. Ravi
	Paper Title:	Tracking the human motion in real time using Star Skeleton Model
	Abstract: Human motion analysis is receiving increasing attention from researchers. This interest is motivated by wide spectrum of applications. In this paper, a process is described for detecting moving targets and extracting boundaries. From these, "star" skeleton is produced. The star skeletonization is suitable for detecting and analyzing human motion in real time. Also the method does not require great deal of image-based information to work efficiently. Extremal points are extracted in star skeleton like head, hands and legs, their tracking described based on an $n \times n$ block of DCTs coefficient. Then we correct the false tracked extremal points such as occluded extremal points.	
Keywords: Human Detection, Image Processing, Occlusion Removal		
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19.	Authors:	Prerana Gupta, Amit Thakkar, Amit Ganatra
	Paper Title:	Comprehensive study on techniques of Incremental learning with decision trees for streamed data
	Abstract: Incremental learning is an approach to deal with the classification task when datasets are too large or when new examples can arrive at any time. Data streams are inherently time-varying and exhibit various types of dynamics. There are some problems in data stream mining like class imbalance, concept drift, arrival of a novel class, etc. This paper focuses on the problem of concept drift. The presence of concept drift in the data significantly influences the accuracy of the learner, thus efficient handling of non-stationary environment is an important problem. Detecting changes of concept definitions in data streams and adapting classifiers to them is studied in this paper. The classifying technique studied is decision trees classification for streamed data, As decision trees are more efficient and easily interpretable. The comparative studies of some algorithms FIMT-DD, ORTO, FIOT, OVA-classifier, i+learning, UFFT, SCRIPT and HOT are shown in this paper	
Keywords: concept drift, Data stream mining, Incremental learning, Hoeffding trees		
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Authors:	H. B. Kekre , Kavita Sonawane
Paper Title:	Feature Extraction in the form of Statistical Moments Extracted to Bins formed using Partitioned Equalized Histogram for CBIR

Abstract: This Paper introduces a new method of feature extraction in terms of statistical moments Mean, Standard deviation, Skewness and Kurtosis into three different bin sizes 8, 27 and 64 based on partitioned equalized histogram of the R, G, and B planes for content based image retrieval. Various feature vector databases are prepared and tested in this work to test response of the system through all small possibilities used in the feature extraction process based on invariant features. The system is designed to work with 2000 BMP images which include 20 different classes where each class has 100 images. Comparison process is core part of all CBIR systems; this system makes use of two similarity measures named Euclidean and Absolute distance for this purpose. System performance is evaluated using PRCP in addition to that LIRS, LSRR along with the newly introduced parameter ‘LONEGST String’ in the response of the given query for all the algorithms. Further the results obtained are refined and combined using the three criteria 1, 2 and 3.

Keywords: Absolute distance, Equalized Histogram, Euclidean distance, LISR, LSRR, ‘Longest String’, PRCP.

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	<p>Authors: Purvi Prajapati, Amit Thakkar, Amit Ganatra</p>	
	<p>Paper Title: A Comprehensive and Comparative Study on Hierarchical Multi Label Classification</p>	
21.	<p>Abstract: Multi label classification is variation of single label classification where each instance is associated with more than one class labels. Multi label classification is used in many applications like text classification, gene functionality, image processing etc. Hierarchical multi-label classification problems combine the characteristics of both hierarchical and multi-label classification problems. This paper introduced k binary classifier and one classifier approaches of hierarchical multi label classification. These approaches are explained with two algorithms to solve hierarchical multi label classification problems. One is the C4.5H algorithm (extension of multi label decision tree) and second is Predictive Clustering Tree (PCT) algorithm. From theoretical and experimental study on yeast data set shows that PCT algorithm is the best option for hierarchical multi label classification. PCT algorithm is implemented on Clus. This paper introduced three approaches of Clus: Single Classification (SC), Hierarchical Single Label Classification (HSC) and Hierarchical Multi label Classification (HMC). From theoretical and experimental study, HMC performs better compare to remaining two approaches.</p> <p>Keywords: Classification, Decision Tree, Hierarchical Classification, Multi Label Classification, Predictive clustering tree.</p> <p>References:</p> <ol style="list-style-type: none"> 1. C. Vens, J. Struyf, L. Schietgat, S. D'zeroski, and H. Blockeel. Decision trees for hierarchical multi-label classification. Machine Learning, 73(2):185–214, Springer 2008. 2. Fernando Esteban Barril Otero. Thesis on New AntColony Optimisation Algorithms for Hierarchical Classification of Protein Functions, January 2010. 3. Leander Schietgat, Hierarchical Multilabel Classification Trees for Gene Function Prediction, Department of Computer Science, Catholic University of Leuven. Feb. 25, 2007. 4. Leander Schietgat , Hendrik Blockeel, Jan Struyf. Decision trees for hierarchical multilabel classification: a case study in functional genomics. BNAIC Namur, Belgium, 5-6 October 2006. 5. Leander Schietgat, Hendrik Blockeel, Jan Struyf, Hierarchical Multi-Classification with Predictive Clustering Trees in Functional Genomics, Springer, 2005. 6. Clus : user manual www.cs.kuleuven.be/~dtai/clus/ 7. G. Tsoumakas and I. Vlahavas. Random k-labelsets: An ensemble method for multilabel classification. In Proceedings of the 18th European Conference on Machine Learning (ECML 2007), 2007. 8. Hendrik Blockeel, Maurice Bruynooghe, Saso Dzerosk, Jan Ramon and Jan Struyf. Hierarchical multi- classification, CiteSeer 2002. 9. Andrew Mayne, Russell Perry. Hierarchically Classifying Documents with Multiple Labels. Computational Intelligence and Data Mining ,IEEE, 2009. 10. Jian-Wu Xu, Vartika Singh, Venu Govindaraju and Depankar Neogi. A Hierarchical Classification Model for Document Categorization. Appearing in Document Analysis and Recognition , ICDAR 2009. 11. Wei Bi, James T.Kwok. Multi-Label Classification on Tree and DAG Structured Hierarchies. Appearing in Proceedings of the 28th International Conference on Machine Learning , Bellevue, WA, USA, 2011. 12. Benhui Chen and Jinglu Hu. Hierarchical Multi-label Classification Incorporating Prior Information for Gene Function Prediction. Appearing in Intelligent Systems Design and Applications, 10th international conference, IEEE 2010. 	110-116
	<p>Authors: A. Anusha, Ch.Veera Babu</p>	
	<p>Paper Title: EFFICIENT BANDWIDTH IN MOBILE AD HOC NETWORKS USING GENETIC ALGORITHMAM</p>	
22.	<p>Abstract: Most of the existing routing protocols are designed primarily to carry best effort traffic and only concerned with shortest path routing. Little attention is paid to the issues related to the quality of services (QoS) requirement of a route. In this paper, we will consider the problem of searching for a route satisfying the bandwidth requirement in a mobile ad-hoc network. Unlike in a wired network, where the available bandwidth of a route is simply the minimum bandwidth of the links along the route, the calculation of the available bandwidth of a route in a mobile ad-hoc network has been proved to be complete. The Genetic Algorithm (GA) has successfully been applied to many famous Application problems in communication networks, such as the multicast routing problem. Recently, many researchers have attempted to adopt</p>	117-125

	<p>genetic algorithms to solve various problems existing in mobile ad hoc networks. This Genetic Algorithm executed in a centralized manner for the bandwidth calculation problem in the TDMA channel model.</p> <p>Extensive computer simulations are performed to compare the performance of our proposed GA method and that of other existing heuristic algorithms. Simulation results verify that our GA can produce larger bandwidth utilization than others.</p> <p>Keywords: The Genetic Algorithm (GA) has successfully been applied to many famous</p> <p>References:</p> <ol style="list-style-type: none"> 1. Banerjee N, and Das, S.K., 2001, "MODERN: Multicast on-Demand QoS-based Routing in Wireless Networks" Proceedings of the IEEE VTS 53rd Vehicular Technology Conference. 2. Chen S. and Nahrstedt, K, "Distributed Quality of Service Routing in Adhoc Networks", Proceedings of the IEEE International Conference On Communications. 3. Gen M. and Cheng R., Genetic Algorithms and Engineering Design John Wiley and Sons. 4. Lin H.C. and Fung, P.C., "Finding Available Bandwidth in Multihop Mobile Wireless Networks" Proceedings of the IEEE VTS 51rd Vehicular Technology Conference. 					
23.	<table border="1"> <tr> <td data-bbox="119 519 335 564">Authors:</td> <td data-bbox="335 519 1412 564">Tonye K. Jack</td> </tr> <tr> <td data-bbox="119 564 335 622">Paper Title:</td> <td data-bbox="335 564 1412 622">A Method for the Stress and Fatigue Analysis of Bolted Joint Connections: together with Programmed Solution</td> </tr> </table> <p>Abstract: Often the weakest link in integral engineering equipment, bolted joint connections require proper attention and detailed analysis at the design stage for a fail safe operation in service. The analysis is often lengthy with several variables under consideration. A step-by-step guide, together with all required equations for evaluating a typical bolted joint connection is given. A computer programmed solution in Microsoft Excel TM for such analysis is shown through a worked example.</p> <p>Keywords: Bolt and nut connection, bolted joint analysis, bolt fatigue, joint stresses, bolt preload</p> <p>References:</p> <ol style="list-style-type: none"> 1. S. Aaronson, "Analyzing Critical Joints," Machine Design, January, 1982 2. Engineering Sciences Data Unit, Applying, Measuring and Maintaining Pre-tensioning in Steel Bolts, ESDU, Item No. 86014, 1987 3. Engineering Sciences Data Unit, Analysis of Pre-tensioned bolted joints subject to tensile (separating) forces, ESDU, Item No. 85021, 1985 4. Engineering Sciences Data Unit, "Fatigue Strength of Steel stud threads under axial and combined axial and bending loading," ESDU Item No. 85004 5. Engineering Sciences Data Unit, "Static strength of screwed fasteners," ESDU, Item No. 67019, SA 253, (Amended September, 1988) 6. ASME Section VIII, Division I, General requirements for Pressure Vessels design, "Rules for Bolted Flange connections," 1995, Appendix II 7. A. D. Deutsman, W. J. Michels, C. E. Wilson, Machine design theory and practice, New York, Macmillan, 1975, pp. 815-829 8. J. E. Shigley, Mechanical engineering design, McGraw-Hill, 3rd. ed., 1977 9. E. Shigley, C. Mischke, Mechanical engineering design, McGraw-Hill, 5th, ed., 1989 10. Baumann, T. R., Designing Safer Pre-stressed Joints, Machine Design, April 25, 1991 11. R. Parmley (ed.), H. S. Brenner, "Standard threaded fasteners," Standard handbook of fastening and joining, McGraw-Hill, 1989 12. W. C. Stewart, "What torque?," Fastener data book, 1950 13. Alignagraphics Co., "Projoint"-Bolted Joint Analysis Program, User Manual, London, 1998 14. R.E. Peterson, Stress concentration factors, New York, Wiley, 1974 15. T. K. Jack, "Mechanical integrity of sucker rods when used as line shafts in rotary down-hole pumps, M. Sc. Thesis, School of Mechanical engineering, Cranfield University, England, 1993 16. Fastener Institute, Machine Design, September 11, 1969 17. J. H. Bickford, An introduction to the design and behaviour of bolted joints, New York, M. Dekker, 1990 18. A. Blake, Practical stress analysis in design, New York, Marcel, , 1982 19. C. Crispell, "New Data on Fastener Fatigue," Machine Design, pp. 71-74, April 22, 1982 20. JA. C. Hood, "Corrosion in Threaded Fasteners – Causes & Cures," Machine Design, pp. 153-156, 1961 21. Machinery Handbook 22. N. Motosh, "Determination of Joint Stiffness in Bolted Connections," Trans. ASME, August, 1976 23. N. Motosh, "Development of Design Charts for Bolts Preloaded up to the Plastic Range," Trans. ASME., Aug. 1976 24. C. Osgood, "How Elasticity Influences Bolted Joints," Machine Design, Feb., 1972 25. J. Tang, D. Zhaoyi, "Better Stress and Stiffness Estimates for Bolted Joints," Machine Design, November 24, 1988 	Authors:	Tonye K. Jack	Paper Title:	A Method for the Stress and Fatigue Analysis of Bolted Joint Connections: together with Programmed Solution	126-130
Authors:	Tonye K. Jack					
Paper Title:	A Method for the Stress and Fatigue Analysis of Bolted Joint Connections: together with Programmed Solution					
24.	<table border="1"> <tr> <td data-bbox="119 1585 335 1630">Authors:</td> <td data-bbox="335 1585 1412 1630">Ming Cai, Jing Cai, Shouning Qu</td> </tr> <tr> <td data-bbox="119 1630 335 1680">Paper Title:</td> <td data-bbox="335 1630 1412 1680">The Design and Implementation of KDD System for Industrial Flow Object</td> </tr> </table> <p>Abstract: KDD is an important research and application area. This paper is aimed at the application of flow object's association rules extraction and object modeling in the cement industry. We adopt the improved Apriori algorithm and the flexible neural tree model of the structure optimization algorithm, designing and implementing the KDD system for industrial flow object by J2EE. The whole system is mainly divided into two functions: one function module is association rules extraction, the other one is object modeling, and the original data were collected from the decomposing furnace production link, which is one of the most important processes of the cement industry.</p> <p>Keywords: Association Rule, Flow Object, J2EE, KDD, Object Modeling</p> <p>References:</p> <ol style="list-style-type: none"> 1. Mitra S., Pal S., Data Mining in Soft Computing Framework: A Survey, IEEE Trans on NN,2002,13(1):3-13. 2. Johnson J., Liu M., Unification of knowledge discovery and data mining using rough sets approach in a real-world application. RSCTC 2002,LNAI 2005,2001:330-337. 3. R. K. Xu, J. m. Wang, Q. R. Jiang, Application Status of cement production automatization technology and equipment in China, China Building Material, no.05,1999,pp. 1-5. 4. J. L. Li, H. Q. Zhou, The Production of Cement, Wuhan University of Technology Press, Wuhan, 2008. 5. Agrawal R, Imielinski T, Swami A, Mining association rules between sets of items in large database, Proceedings of the ACM SIGMOD 	Authors:	Ming Cai, Jing Cai, Shouning Qu	Paper Title:	The Design and Implementation of KDD System for Industrial Flow Object	131-136
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12. Y. H. Chen, S. Kawaji, System Identification and Control using Probabilistic Incremental Program Evolution Algorithm, *Journal of Robotics and Mechatronics*, 2000,12:(6), 657-681
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25.	Authors:	Dhaval N Tailor, Bhavesh Bhalja, Vijay Makawana	137-140
	Paper Title:	Roll of PSS and SVC for improving the Transient Stability of Power System	
	<p>Abstract: This paper focus on the significant of PSS and SVC(static var compensator) to improve the transient stability of power system in various abnormal condition. This paper shows the simulation result of model for different fault condition with PSS and without PSS and show how the SVC help to improve the stability when PSS is fail to maintain the stability.</p> <p>Keywords: PSS, static var compensator, simulation model, their result with PSS and without PSS, model with SVC.</p> <p>References:</p> <ol style="list-style-type: none"> 1. R., I. Kamwa, L. Soulieres, J. Potvin, and R. Champagne, Grondin, "An approach to PSS design for transient stability improvement through supplementary damping of the common low frequency," August 1993. 2. "IEEE recommended practice for excitation system models for power system stability studies," IEEE St. 421.5-2002(Section 9).. 3. P Kundur,., McGraw-Hill, 1994, ch. Section 12.5. 4. M.Klein, G.J.Rogers and M.S.Zywno., P.Kundur, IEEE Trans. PWR54, May 1989, pp. 614-626. 5. M.Klein, G.J.Rogers and P.Kundur, "A Fundamental Study of Inter-Area Oscillations", IEEE Trans, Power Systems Volume- 6, Number-3, August 1991. pp 914-921. 		

26.	Authors:	Purvi Rekh, Amit Thakkar, Amit Ganatra	141-146
	Paper Title:	A Survey and Comparative analysis of Expectation Maximization based Semi-Supervised Text Classification	
	<p>Abstract: Semi-supervised learning (SSL) based on Naïve Bayesian (NB) and Expectation Maximization (EM) combines small limited numbers of labeled data with a large amount of unlabeled data to help train classifier and increase classification accuracy. The iterative process in the standard EM-based semi-supervised learning includes two steps: firstly, use the classifier constructed in previous iteration to classify all unlabeled samples; then, train a new classifier based on the reconstructed training set, which is composed of labeled samples and all unlabeled samples. There are limitations of standard EM-based semi-supervised learning like, problem in the process of reconstructing the training set - some unlabeled samples are misclassified by the current classifier, problem of over-training, problem of as the number of documents increases, the running time increases significantly. With the aim of improving the efficiency problem of the standard EM algorithm, many authors have proposed approaches. These approaches are described in this paper, also comparison of these approaches is done and limitations of these methods are described. Also some research challenges are given in this area.</p> <p>Keywords: Expectation Maximization, Naïve Bayesian, Semi-supervised learning, Text Classification.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Vishal Gupta, "A Survey of Text Mining Techniques and applications", <i>Journal of Emerging Technologies</i>, In Web Intelligence, Vol. 1, No. 1, August 2009. 2. Kamal Nigam, Andrew Kachites Mccallum, "Text classification from Labeled and Unlabeled Data using EM", <i>Machine Learning</i>, Kluwer Academic Publishers, Boston. Manufactured in The Netherlands, 2002 H. Poor, An Introduction to Signal Detection and Estimation. New York: Springer-Verlag, 1985, ch. 4. 3. Xinghua Fan, Zhiyi Guo, Houfeng Ma. "An improved EM-based Semi-supervised Learning Method" ,<i>International Joint Conference on Bioinformatics, Systems Biology and Intelligent Computing</i>, page(s): 529 - 532, August – 2009. 4. Xinghua Fan, Zhiyi Guo; "A semi-supervised Text Classification Method based on Incremental EM Algorithm", <i>WASE International Conference on Information Engineering</i>, Page(s): 211 - 214, 2010. 5. Wen Han, Xiao Nan-feng, "An Enhanced EM Method of Semi-supervised Classification Based on Naive Bayesian", <i>Eighth International Conference on Fuzzy Systems and Knowledge Discovery (FSKD)</i>, 15- Sep- 2011.M. Young, <i>The Technical Writers Handbook</i>. Mill Valley, CA: University Science, 1989. 6. YueHong Cai, Qian Zhu; "Semi-Supervised Short Text Categorization based on Random Subspace"- <i>Computer Science and Information Technology (ICCSIT)</i>, 3rd IEEE International Conference on Page(s): 470 – 473 , 2010.J. Jones. (1991, May 10). <i>Networks</i> (2nd ed.) [Online]. Available: http://www.atm.com 7. Xiaojin Zhu, "Semi-Supervised Learning Literature Survey", <i>Computer Sciences TR 1530</i>, University of Wisconsin – Madison, 2005.E. H. Miller, "A note on reflector arrays (Periodical style—Accepted for publication)," <i>IEEE Trans. Antennas Propagat.</i>, to be published. 8. Yutaka Sasaki, "Automatic Text Classification", <i>NaCTeM</i>, School of Computer Science.C. J. Kaufman, Rocky Mountain Research Lab., Boulder, CO, private communication, May 1995. 9. GuoQiang, "Research and Improvement for Feature Selection on Naïve Bayes Text Classifier", <i>2nd International Conference on Future Computer and Communication</i>, Volume 2. 10. Bei Yu, "Evaluation of Text classification methods for literature survey", <i>Literary and Linguistic Computing</i>, Vol. 23, No. 3, 2008. 		

27.	Authors:	Asha Gowda Karegowda , M.A. Jayaram, A.S. Manjunath
	Paper Title:	Cascading K-means Clustering and K-Nearest Neighbor Classifier for Categorization of Diabetic Patients
28.	Authors:	Ritu Pareek, P.K. Ghosh
	Paper Title:	Discrete Cosine Transformation based Image Watermarking for Authentication and Copyright Protection
		<p>Abstract: Medical Data mining is the process of extracting hidden patterns from medical data. This paper presents the development of a hybrid model for classifying Pima Indian diabetic database (PIDD). The model consists of three stages. In the first stage, K-means clustering is used to identify and eliminate incorrectly classified instances. In the second stage Genetic algorithm (GA) and Correlation based feature selection (CFS) is used in a cascaded fashion for relevant feature extraction, where GA rendered global search of attributes with fitness evaluation effected by CFS. Finally in the third stage a fine tuned classification is done using K-nearest neighbor (KNN) by taking the correctly clustered instance of first stage and with feature subset identified in the second stage as inputs for the KNN. Experimental results signify the cascaded K-means clustering and KNN along with feature subset identified GA_CFS has enhanced classification accuracy of KNN. The proposed model obtained the classification accuracy of 96.68% for diabetic dataset.</p> <p>Keywords: Genetic algorithm, Correlation based feature selection ,K-nearest neighbor, K-means clustering , Pima Indian Diabetics.</p> <p>References:</p> <ol style="list-style-type: none"> 1. J. Han, and M. Kamber, Data Mining: Concepts and Techniques, San Francisco, Morgan Kauffmann Publishers, (2001) 2. Editorial, Diagnosis and Classification of Diabetes Mellitus, American Diabetes Association, Diabetes Care, vol 27, Supplement 1, (Jan 2004). 3. The Expert Committee on the Diagnosis and Classification of Diabetes Mellitus: Follow up report on the Diagnosis of Diabetes Mellitus. Diabetic Care 26,pp.3160- 3167, (2003). 4. Michie, D., Spiegelhalter, D. J., & Taylor, C. C., Machine learning, neural and statistical classification. Ellis Horwood, 1994 5. Humar, K., & Novruz, A. Design of a hybrid system for the diabetes and heart diseases. Expert Systems with Applications, 2008, 35, 82–89. 6. B.M Patil, R.C Joshi, Durga Tosniwal, Hybrid Prediction model for Type-2 Diabetic Patients, Expert System with Applications, 37, 2010, 8102-8108. 7. Polat, K., Gunes, S., & Aslan, A., A cascade learning system for classification of diabetes disease: Generalized discriminant analysis and least square support vector machine. Expert Systems with Applications, 2008,34(1), 214–221. 8. Asha Gowda Karegowda ,M.A.Jayaram , “Integrating Decision Tree and ANN for Categorization of Diabetics Data “, International Conference on Computer Aided Engineering, December 13-15, 2007, IIT Madras, Chennai, India. 9. Asha Gowda Karegowda and M.A. Jayaram, “Cascading GA & CFS for Feature Subset Selection in Medical Data Mining” , International Conference on IEEE International Advance Computing Conference (IACC’09) on March 6-7, 2009, Thapar University, Patiala, Punjab India. 10. Asha Gowda Karegowda , A.S. Manjunath , M.A. Jayaram Application Of Genetic Algorithm Optimized Neural Network Connection Weights For Medical Diagnosis Of Pima Indians Diabetes, International Journal on Soft Computing (IJSC), Vol.2, No.2, May 2011. 11. Joseph L.Breault, Data Mining Diabetic Databases: Are rough Sets a Useful Addition?, http://www.galaxy.gmu.edu/interface/I01/I2001Proceedings/Jbreault 12. Mark A. Hall ,Correlation-based Feature Selection for Machine Learning, Dept of Computer science, University of Waikato . http://www.cs.waikato.ac.nz/~mhall/thesis.pdf 13. Asha Gowda Karegowda, M.A.Jayaram A.S .Manjunath, Feature Subset Selection using Cascaded GA & CFS: A Filter Approach in Supervised Learning.,International Journal on Computer Applications (IJCA) Volume 23, No 2,pp 2011 June.
		<p>Abstract: In this paper, a digital image watermarking algorithm based on DCT transformation is proposed. The imperceptibility and robustness is provided against different attacks. A binary image is embedded in the host image by two different techniques based on DCT. One is middle band coefficient exchange technique, it utilizes comparison of two middle-band DCT coefficients to encode a single bit into a DCT block. Coefficient locations are selected based on the recommended JPEG quantization table. Second is based on PN sequence, PN sequences of the watermark bits are embedded in the coefficients of the corresponding DCT middle frequencies. In extraction stages, the watermarked image, which may be attacked, is processed the same way as the embedding process. Finally, correlation and PSNR values are calculated to determine the level of accuracy and imperceptibility. Experimental results show that the proposed method improved the performance of watermarking algorithm.</p> <p>Keywords: Discrete Cosine Transform, Digital watermarking, PN Sequence, Middle band frequency, Copyright protection, CDMA.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Barni, M., P´erez-Gonz´alez, F.: Special session: watermarking security. In Edward J. Delp III, Wong, P.W., eds.: Security, Steganography, and Watermarking of Multimedia Contents VII. Volume 5681., San Jose, California, USA, SPIE (2005) 685–768. 2. P´erez-Gonz´alez, F., Furon, T.: Special session on watermarking security. In Barni, M., Cox, I., Kalker, T., Kim, H.J., eds.: Fourth International Workshop on Digital Watermarking. Volume 3710., Siena, Italy, Springer (2005) 201–274. 3. Bassia P., Pitas I., and Nikolaidis 2001, “Robust Audio Watermarking in Time Domain”, IEEE Trans. On Multimedia, Vol. 3, pp. 232-241. 4. R. B. Wolfgang and E. J. Delp, "Overview of image security techniques with applications in multimedia systems," Proceedings of the SPIE International Conference on Multimedia Networks: Security, Displays, Tenninals, and Gateways, November 4-5, 1997, Dallas, Texas, vol. 3228, pp. 297-308. 5. I. J. Cox and M. L. Miller, "A review of watermarking and the importance of perceptual modeling," Proceedings of the SPIE International Conference on Human Vision and Electronic Imaging II, Feb. 10-13, 1997, San Jose, CA, USA, pp. 92-99. 6. Darko Kirovski Henrique S. Malvar and Yacov Yacobi,(2002) “Multimedia Content Screening using a Dual Watermarking and Fingerprinting System”, Proceedings of the tenth ACM international conference on Multimedia, pp.372-381. 7. Sung Jin Lim, Hae Moon, Seung-Hoon Chae, Sung Bum Pan, Yongwha Chung and Min Hyuk Chang,(2008), “Dual Watermarking Method for Integrity of Medical Images”, Second International Conference on Future Generation Communication and Networking, IEEE computer

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	<p>Society, pp. 70-73.</p> <p>8. Mingyi Jiang, Giiopiiig Xo, Dongfeiiig Yuan (2004) "A Novel Blind Watermarking Algorithm Based on Multiband Wavelet Transform", Proceedings of ICSP, pp. 857-860.</p> <p>9. Barni, M., et al., Watermark embedding: hiding a signal within a cover image. Comm. Magazine, IEEE, 39(8): p. 102-108. 2001.</p> <p>10. Shoemaker, C., "Hidden bits: A survey of techniques for digital watermarking", Independent study, EER 290, spring 2002.</p> <p>11. I. Cox, J. Kilian, F. T. Leighton, and T. Shamoan, "Secure spread spectrum watermarking for multimedia," IEEE Transactions on Image Processing, vol. 6, no. 12, December, 1997, pp. 1673-1687. F. M. Boland, J. J. K. 6 Ruanaidh and C. Dautzenberg.</p> <p>12. "Watermarking digital images for copyright protection," Proceedings of the International Conference on Image Processing and its Applications, Edinburgh, Scotland, July 1995, pp. 321-326.</p> <p>13. N.F. Johnson, S.C. Katzenbeisser, "A Survey of Steganographic Techniques" in Information Techniques for Steganography and Digital Watermarking, S.C. Katzenbeisser et al., Eds. Northwood, MA: Artec House, Dec. 1999, pp 43-75.</p>	
	<p>Authors: Swati Anand Dwivedi</p> <p>Paper Title: Low Power CMOS Design of an SRAM Cell with Sense Amplifier</p>	
29.	<p>Abstract: Power dissipation and switching delay are the focusing point in any circuit used in memory. It is required to design a circuit having low power dissipation and high switching speed in order to meet the current requirements. Reduction in power can be done by several methods. Here low power current sensing scheme for CMOS SRAM is presented in this paper. Large bit-line capacitance is one of the main bottlenecks to the performance of on-chip caches. New sense amplifier techniques need to explicitly address this challenge. The current sense amplifier senses the cell current directly and shows a speed improvement of 17-20% for 128 memory cells as compared to the conventional voltage mode sense amplifier</p> <p>Keywords: CMOS, SRAM, Sense Amplifier, Switching delay, VLSI</p> <p>References:</p> <ol style="list-style-type: none"> 1. "Low power design an SRAM cell for portable devices". By Prashant Upadhyay, Mr. Rajesh Mehra, Niveditta Thakur. IEEE-2010 2. "High speed single ended pseudo differential circuit current sense amplifier for SRAM cell". IEEE 2008. 3. "A low power SRAM using hierarchical bit line and local sense amplifier." IEEE 2008 4. "A high performance sense amplifier for low power applications". IEEE 2004. 5. "A new current mode sense amplifier for low voltage low power SRAM". IEEE 1998. 6. "Current mode technique for high speed VLSI circuit with application of current sense amplifier for CMOS SRAM" IEEE 1991. 	157-160
	<p>Authors: Anil Kumar Vajja, B.Bhaskar Rao</p> <p>Paper Title: Design and analysis of 32-bit CPU based on MIPS</p>	
30.	<p>Abstract: In this paper, we have studied Microcomputer with out interlocked pipeline stages instruction format instruction data path decoder module function and design theory basend on RISC CPUT instruction set. We have also designed instruction fetch(IF) module of 32-bit CPU based on RISC CPU instruction set. Function of IF module mainly includes fetch instruction and latch module address arithmetic module check validity of instruction module synchronous control module. Function of IF modules are implemented by pipeline and simulated successfully on Xilinx Spartan 3E fpga device..</p> <p>Keywords: MIPS, Data Flow, Data Path, Pipeline</p> <p>References:</p> <ol style="list-style-type: none"> 1. Bai-ZhongYing, Computer Organization, Science Press, 2000.11. 2. Wang-AiYing, Organization and Structure of Computer, Tsinghua University Press, 2006. 3. Wang-YuanZhen, IBM-PC Macro Asm Program, Huazhong University of Science and Technology Press, 1996.9. 4. MIPS Technologies, Inc. MIPS32™ Architecture For Programmers Volume II: The MIPS32™ Instruction Set, June 9, 2003. 5. Zheng-WeiMin, Tang-ZhiZhong. Computer System Structure (The second edition), Tsinghua University Press,2006. 6. Pan-Song, Huang-JiYe, SOPC Technology Utility Tutorial, Tsinghua University Press,2006. 7. MIPS32 4KTMPprocessor Core Family Software User's Manual, MIPS Technologies Inc. 8. Mo-JianKun, Gao-JianSheng, Computer Organization, Huazhong University of Science and Technology Press, 1996. 9. Zhang-XiuJuan, Chen-XinHua, EDA Design and emulation Practice [M]. Beijing, Engine Industry Press. 2003. 10. "IEEE Standard of Binary Floating-Point Arithmetic" IEEE Standard754, IEEE Computer Society, 1985. 11. Yi-Kui, Ding-YueHua, Application of AMCCS5933 Controller in PCI BUS, DCABES2007, 2007.7. 	161-166
	<p>Authors: Reena Dadhich, GeetikaNarang, D.M.Yadav</p> <p>Paper Title: Analysis and Literature Review of IEEE 802.16e (Mobile WiMAX) Security</p>	
31.	<p>Abstract: IEEE802.16e or Mobile WiMAX, where WiMAX stands on Worldwide Interoperability for Microwave Access, is one of the latest technologies in the Wire-Less World. The main goal of WiMAX is to deliver wireless communications with quality of service in a secured environment. IEEE 802.16e provides the ability for users to use the Broadband Wireless Communication even when the user is moving. Its Mobility feature makes it differ from the previous protocol IEEE 802.16d which was based on Static WiMAX and providedthe Wireless communication at fixed locations.This paper is related to the security issues for IEEE802.16e. Various Threats which occurs at Physical and MAC(Medium Access Control) layer in Mobile WiMAX,what solutions have been proposed in literature related to these threat and what are the shortcomings of these proposed solution. And also at last in proposed work we have proposed solution for one of the main threat called as DoS(Denial of Service)</p> <p>Keywords: MIMO,Threats,Protocol Architecture, Security Frame Work.</p> <p>References:</p> <ol style="list-style-type: none"> 1. FudenTshering and Anjali Sardana Dept.of Electronics and Computer Engineering, Indian Institute of Technology Roorkee, " A Review of Privacy and Key Management Protocol in IEEE 802.16e", International Journal of Computer Applications (0975 – 8887) Volume 20–No.2, April 2011. 	167-173

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Paper Title:	Study on Equipment Failure and Loss Estimation through Taguchi Method with Risk Management
Abstract:	In the highly competitive business environment, manufacturing organizations are seeking new strategies to improve the quality of product reduce product cost, eliminate loss producing events and reduce wastage arising out of manufacturing system, and the cited subjects are aggressively discussed in the present days. Processing equipments are playing important role in achieving the high quality product and productivity in manufacturing organizations. The equipment failures may occur on various accounts during the manufacturing process. The cost of special and sophisticated manufacturing equipment are high and their idle time or down time becomes more expensive. Hence the effective maintenance system is most important for better utilization of resources. A case study has been taken up from preventive maintenance department at M/s Premier Instruments and Control Limited (PRICOL) to develop effective maintenance system. One of the risk management techniques has been used to predict the probability of occurrence and severity of failure events for prioritizing the risk. In identifying the root causes of the failure, the common tools like fault tree analysis is made use of. The losses due to risks are computed using Taguchi method. Further evaluated and risk control measures like reduction, risk avoidance, risk transfer and risk retention are effected on critical failure events.
Keywords:	Failures, FTA, Risk Management, Taguchi Loss Function
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	Paper Title:	Various Image Segmentation Techniques through clustering and Markovian Model: A Survey
33.	Abstract: Image segmentation is the identification and separation of homogeneous regions in the image, has been the subject of considerable research activity. Many algorithms have been elaborated for gray scale images. This paper is a survey on different clustering techniques to achieve image segmentation. Clustering can be termed here as a grouping of similar images in the database. Clustering is done based on different attributes of an image such as size, color, texture etc. The purpose of clustering is to get meaningful result, effective storage and fast retrieval in various areas.	183-185
	Keywords: Clustering, image segmentation, markovian model, relevance feedback	
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34.	Authors:	K. Kalyan raj, E. Swati, Ch. Ravindra
	Paper Title:	Voltage Stability of Isolated Self Excited Induction Generator (SEIG) for Variable Speed Applications using Matlab/Simulink
	Abstract: Three phase induction generators (SEIG) play a major role in renewable energy like wind energy and hydraulic energy generating systems. In this paper an attempt has been made to give the detailed approach about the analysis and control of SEIG for variable wind speed applications. The main disadvantage of SEIG is poor voltage regulation, here different strategies adopted for voltage regulation are discussed and its scope of research is evolved.	186-190
	Keywords: Wind, SEIG, Excitation, Capacitor bank, VSI, Universal bridge	
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	Paper Title: A Comparative Study of Image Scaling Algorithms	
35.	<p>Abstract: In this paper, we propose comparative study of image scale retrieval scheme. To the best of our knowledge, there is less comprehensive study on large-scale evaluation. Our empirical results show that our proposed solution is able to scale for hundreds of thousands of images, which is promising for building scale systems. A comparison of various techniques for Image scaling one digital image in to another is made. We will compare various image scaling techniques such as Gaussian scale mixtures in the wavelet domain, Local Wiener estimate, Multi-scale image scaling, Bayes least squares estimator, Thin Plate Spline based image scaling based on different attributes such as Computational Time, Visual Quality of image scaling obtained and Complexity involved in selection of features.</p> <p>Keywords: Bayes least squares (BLS), Gaussian scale mixture (GSM), Local Wiener estimate, Multi-scale image scaling, Thin Plate Spline..</p> <p>References:</p> <ol style="list-style-type: none"> 1. M J Wainwright and E P Simoncelli, "Scale mixtures of Gaussians and the statistics of natural images," in Adv. Neural Information Processing Systems, S. A. Solla, T. K. Leen, and K.-R.M'uller, Eds., Cambridge, MA, May 2000, vol. 12, pp. 855–861, MIT Press. 2. M Wainwright, E Simoncelli, and A Willsky, "Random cascades on wavelet trees and their use in modeling and analyzing natural imagery," Applied and Computational Harmonic Analysis, 2000. 3. D Andrews and C Mallows, "Scale mixtures of normal distributions," J. Royal Stat. Soc., vol. 36, pp. 99–, 1974. 4. M S Crouse, R D Nowak, and R G Baraniuk, "Waveletbased statistical signal processing using hidden Markov models," IEEE Trans. Signal Proc., vol. 46, pp. 886–902, April 1998. 5. M K Mihcak, I Kozintsev, K Ramchandran, and P Moulin, "Low-complexity image denoising based on statistical modeling of wavelet coefficients," IEEE Trans. Sig. Proc., vol. 6, no. 12, pp. 300–303, December 1999. 6. C Spence and L Parra, "Hierarchical image probability (HIP) model," in Adv. Neural Information Processing Systems, S. A. Solla, T. K. Leen, and K.-R. M'uller, Eds., Cambridge, MA, May 2000, vol. 12, MIT Press. 7. J Portilla, V Strela, M Wainwright, and E Simoncelli, "Adaptive Wiener denoising using a Gaussian scale mixture model in the wavelet domain," in Proc 8th IEEE Int'l Confon Image Proc, Thessaloniki, Greece, 2001, pp. 37–40 8. J Portilla, V Strela, M Wainwright, and E P Simoncelli, "Image denoising using scale mixtures of Gaussians in the wavelet domain," IEEE Trans. Image Proc., In Press. 2003. 9. E P Simoncelli, WT Freeman, E H Adelson, and D J Heeger, "Shiftable multi-scale transforms," IEEE Trans Information Theory, vol. 38, no. 2, pp. 587–607, March 1992. 10. R R Coifman and D L Donoho, "Translation-invariant denoising," in Wavelets and statistics, A Antoniadis and G Oppenheim, Springer-Verlag lecture notes, San Diego, 1995. 11. J Starck, E J Candes, and D L Donoho, "The curvelet transform for image denoising," IEEE Trans. Image Proc., vol. 11, no. 6, pp. 670–684, June 2002. 12. M. R. Teaque, "Image Analysis via the General Theory of Moments," Journal of the Optical Society of America, vol. 70, pp. 920-930, 1980. 13. Y. S. Abu-Mostafa and D. Psaltis, "Recognitive Aspects of Moment Invariants," Pattern Analysis and Machine Intelligence, IEEE Transactions on, vol. PAMI-6, pp. 698-706, 1984. 14. M. Schlemmer, M. Heringer, F. Morr, I. Hotz, M. H. Bertram, C. Garth, W. Kollmann, B. Hamann, and H. Hagen, "Moment Invariants for the Analysis of 2D Flow Fields," Visualization and Computer Graphics, IEEE Transactions on, vol. 13, pp. 1743-1750, 2007. 	191-193
	Authors: Samir Shihada, Mohammed Arafa	
	Paper Title: Mechanical Properties of RC Beams with Polypropylene Fibers under High Temperature	
36.	<p>Abstract: The objective of this study is to examine the impact of polypropylene fibers on fire resistance of steel reinforced concrete beams. In order to achieve this, concrete mixtures are prepared by using different contents of polypropylene; 0, 0.45 and 0.67 kg/m³. Simply supported beams are heated in an electric furnace to a temperature of 400° for exposure up to 4.5 hours and tested under a static point load on a universal loading frame. Based on the results of this study, it is concluded that the ultimate residual strengths of RC beams containing polypropylene fibers are higher than those without polypropylene fibers. Furthermore, the researchers find out that RC beams which are prepared using 0.67 kg/m³ of polypropylene fibers can significantly promote the residual ultimate strengths during heating.</p> <p>Keywords: Reinforced Concrete, Polypropylene Fibers, Beams, Fire resistance, Flexural strength.</p> <p>References:</p> <ol style="list-style-type: none"> 1. Chang Y., Chen Y., Sheu M. and Yao GC., 2006, Residual Stress–Strain Relationship for Concrete after Exposure to High Temperatures, Cement and Concrete Research, Vol. 36, No. 10, pp: 1999–2005. doi:10.1016/j.cemconres.2006.05.029 2. Komonen, J., and Penttala, V., 2003, Effects of High Temperature on the Pore Structure and Strength of Plain and Polypropylene Fiber Reinforced Cement Pastes, Fire Technology, Vol. 39, No. 1, p: 23–34. DOI: 10.1023/A:1021723126005 3. Shihada, S., 2011- Effect of Polypropylene Fibers on Concrete Fire Resistance, Journal of Civil Engineering and Management, Accepted for Publication. 4. Ünltüoğlu E., Topçu İ. and Yalaman B., 2007- Concrete Cover Effect on Reinforced Concrete Bars Exposed to High Temperatures, Construction and Building Materials, Vol. 21, p: 1155–1160. doi:10.1016/j.conbuildmat.2006.11.019 5. Topçu İ. and İşlkdağ B., 2008, The Effect of Cover Thickness on Rebars Exposed to Elevated Temperatures, Construction and Building Materials, Vol. 22, pp. 2053-2058. doi:10.1016/j.conbuildmat.2007.07.026 6. Shihada, S., 2010- Impact of High Temperatures on Column's Longitudinal Reinforcement, Journal of Al Azhar University Engineering Sector, Vol. 5, No. 16, pp. 1059-1066. 7. Xiao, J. and König, G., 2004- Study on Concrete at High Temperature in China—An Overview, Fire Safety Journal, Vol. 39 (1), pp. 89–103. doi:10.1016/S0379-7112(03)00093-6 8. Suji, D., Natesan, S. and Murugesan, R., 2007, Experimental Study on Behaviors of Polypropylene Fibrous Concrete Beams, Journal of Zhejiang University SCIENCE A, Vol. 8, No. 7, pp. 1101-1109. DOI: 10.1631/jzus.2007.A1101 9. Kumar, V., 2011- Behaviour of RCC Beams after Exposure to Elevated Temperatures, Inst. Eng.J, India, Vol. 84, pp. 165-170. 	194-199

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	Authors:	H.S. Behera, Brajendra Kumar Swain, Anmol Kumar Parida, Gangadhar Sahu	
	Paper Title:	A New Proposed Round Robin with Highest Response Ratio Next (RRHRRN) Scheduling Algorithm for Soft Real Time Systems	
37.		<p>Abstract: The efficiency and performance of multitasking operating systems mainly depend upon the use of CPU scheduling algorithms. Round Robin (RR) performs optimally in timeshared system but it is not suitable for real time system because it gives more number of context switches, larger waiting and turnaround time. In this paper, we have proposed a new Round Robin with Highest Response Ratio Next (RRHRRN) scheduling algorithm, which uses Highest Response Ratio (HRR) criteria for selecting processes from Ready Queue. Our experimental result shows that our proposed algorithm performs better than algorithm in DQRRR [1] in terms of reducing the number of context switches, average waiting time and average turnaround time.</p> <p>Keywords: Context Switch, Highest Response Ratio Next Algorithm, Real Time Operating System, Response Ratio, Round Robin Algorithm, Scheduling, Turnaround Time, Waiting Time.</p> <p>References:</p> <ol style="list-style-type: none"> 1. H.S.Behera, R.Mohanty, Debashree Nayak " A New Proposed Dynamic Quantum With Re-Adjusted Round Robin Scheduling Algorithm & its Performance ",<i>International Journal of Computer Applications</i>(0975-8887),Vol 05-No.5, August 2010. 2. Yaashuwanth.C & R.Ramesh "Intelligent Time Slice For Round Robin In Real Time Operating Systems" <i>Ijrras</i> 2 (2) - February 2010. 3. Samih M. Mostafa, S. Z. Rida, Safwat H. Hamad, "Finding Time Quantum Of Round Robin Cpu Scheduling Algorithm In General Computing Systems Using Integer Programming", <i>International Journal of Research and Reviews in Applied Sciences (IJRRAS)</i>, Vol 5, Issue 1, 2010. 4. Rami Abielmona, <i>Scheduling Algorithmic Research</i>, Department of Electrical and Computer Engineering Ottawa-Carleton Institute, 2000. 5. Tarek Helmy, Abdelkader, Dekdouk, "Burst Round Robin: As a Proportional-Share Scheduling Algorithm", <i>IEEE Proceedings of the fourth IEEE-GCC Conference on towards Techno-Industrial Innovations</i>, pp. 424-428, 11- 14 November, 2007. 6. Rakesh Mohanty, H. S. Behera, Khusbu Patwari, Monisha Dash, "Design and Performance Evaluation of a New Proposed Shortest Remaining Burst Round Robin (SRBRR) Scheduling Algorithm", In <i>Proceedings of International Symposium on Computer Engineering & Technology (IS CET)</i>, Vol 17, 2010. 7. Weiming Tong, Jing Zhao, "Quantum Varying Deficit Round Robin Scheduling Over Priority Queues", <i>International Conference on Computational Intelligence and Security</i>. pp. 252- 256, China, 2007. 8. Silberschatz, Galvin and Gagne, <i>Operating systems concepts</i>, 8th edition, Wiley, 2009. 9. Lingyun Yang, Jennifer M. Schopf and Ian Foster, "Conservative Scheduling: Using predictive variance to improve scheduling decisions in Dynamic Environments", <i>Super Computing 2003</i>, November 15-21, Phoenix, AZ, USA. 10. Abbas Noon, Ali Kalakech, Seifedine Kadry, "A New Round Robin Based Scheduling Algorithm for Operating Systems: Dynamic Quantum Using the Mean Average", <i>IJCSI International Journal of Computer Science Issues</i>, Vol. 8, Issue 3, No. 1, May 2011, ISSN (Online): 1694-0814, 11. Rakesh Mohanty, H. S. Behera, Khusbu Patwari, Monisha Dash, M. Lakshmi Prasanna, "Priority Based Dynamic Round Robin (PBD RR) Algorithm With Intelligent Time Slice For Soft Real Time Systems", (<i>IJACSA</i>) <i>International Journal of Advanced Computer Science and Applications</i>, Vol. 2, No.2, February 2011 	200-206
38.		<p>Authors: Sweta Ghosh, Priyanka Pingle, Shweta Mendhe, Priyanka Ganvir, Amita Meshram</p> <p>Paper Title: Quick Bid Online Server</p> <p>Abstract: This project is basically intended at developing software providing features of auctioning of products and players of various fields."Online Auctioning Server" is a server which is an online auction web site aimed at taking the auction to the finger tips of aspiring bidders there by opening up the doors of the "OPEN Auction House' to a wider cross section of Art Lovers and Antique Collectors. This site also acts as an open forum where buyers and sellers can come together and exchange their products. The site makes sure that the sellers get a genuine price and bidders get a genuine product.</p> <p>Keywords: virtual auctioning, auction systems, bid security, quality of service (QoS), query certificate management (QCM)</p> <p>References:</p> <ol style="list-style-type: none"> 1. BOOK FOR ASP.NET BY SCOTT MITCHELL 2. INTERNET SEARCH WIKIPEDIA AND GOOGLE. 3. http://www.designelementsusa.com/services/web-design/web-development-life-cycle 4. AUCTION THEORY: A GUIDE TO THE 	207-212

	5. Literature Survey:-LITER 6. Paul Klemperer 7. Nuffield College, Oxford University 8. http://www.auction.indiatimes.com 9. http://www.ebay.com 10. http://www.msdn.com					
39.	<table border="1"> <tr> <td data-bbox="119 219 335 264">Authors:</td> <td data-bbox="335 219 1412 264">Jitender kumar, Manoj Arora, R. S. Chauhan</td> </tr> <tr> <td data-bbox="119 264 335 309">Paper Title:</td> <td data-bbox="335 264 1412 309">Performance Analysis of Wdm Pon At 10 GB/S</td> </tr> </table> <p>Abstract: In this paper we have studied the Wave length division multiplexing in Passive Optical network using software OPTSIM. We transmit the signal at 10gb/s in MAN Optical network With long Distance(50 km) also minimize the bit error rate. The main aim of the proposed design is to build a MAN optical network using ten-gigabit Ethernet technique, and what are the necessary requirements to build these networks. As a case study, all states center are connected as Star – Bus topology using layer2 and layer3 optical switches. In addition, in this paper one-gigabit optical transmitter and receiver are designed to work as a node in the network topology. Furthermore, the benefits of using L- Band wavelength for transmission take in consider the linear and non-linear effects on fiber optic is presented.</p> <p>Keywords: Wave length division multiplexing, Passive Optical network, OPTSIM</p> <p>References:</p> <ol style="list-style-type: none"> 1. R. Ramaswami et al. “optical Networks, a practical perspective”, second edition, Elsevier Science and Technology books, November 2001. 2. G.P. Agrawal et al., “Fibre-optic communication systems,” third edition, John Wiley and Sons, May 2002. 3. Diptish Dey et al., “Theory towards an all optical WDM slotted ring MAN with support for optical multicasting”, Ph.D. Thesis, University of Twenty, June 2003. 4. Chanclou et al., E. 2006“Overview of the optical broad band access evolution: a joint paper of operators of the IST network of excellence” e-Photon/One. IEEE Communications Magazine. Vol. 44, issue 8, pp. 29-35. 5. FTTH Council Europe. 2009. “Fibre to the home continues its global march”. Press release. [Online]. 12 February. documents/press release/GlobalRankingPressRelease-FINAL-12.02.09.pdf. [Accessed 2 November2009]. 6. FTTH Council Europe. 2009. Ranking of European FTTH penetration shows Scandinavia and smaller economies still ahead. Press release. [Online]. 8 September. [Accessed 2 November 2009]. 7. Chanclou, et al., , “A hybrid optical network architecture consisting of optical cross connects and Optical burst switches”, Faculty Of Informatics, University Of Wollongong, October 2003 [8] Scalable Advanced Ring-based passive Dense Access Network Architecture ,11 November 2009. 8. Slavisa Aleksic et al., “Design Considerations for a High-Speed Metro Network Using All-Optical Packet Processing”, Tu A3.3, pp. 82-86, ICTON 2006 9. G. Barish et al., “World Wide Web caching: Trends and techniques”. IEEE Communications Magazine, Vol. 1, pp. 178–185, May 2000. 	Authors:	Jitender kumar, Manoj Arora, R. S. Chauhan	Paper Title:	Performance Analysis of Wdm Pon At 10 GB/S	213-216
Authors:	Jitender kumar, Manoj Arora, R. S. Chauhan					
Paper Title:	Performance Analysis of Wdm Pon At 10 GB/S					
40.	<table border="1"> <tr> <td data-bbox="119 1070 335 1115">Authors:</td> <td data-bbox="335 1070 1412 1115">Ashish Kumar Dewangan, Majid Ahmed Siddhiqui</td> </tr> <tr> <td data-bbox="119 1115 335 1160">Paper Title:</td> <td data-bbox="335 1115 1412 1160">Iris Recognition - An Efficient Biometric for Human Identification and Verification</td> </tr> </table> <p>Abstract: A biometric system provides automatic identification of an individual based on a unique feature or characteristic possessed by the individual. Iris recognition is regarded as the most reliable and accurate biometric identification system available. Most commercial iris recognition systems use patented algorithms developed by Daugman, and these algorithms are able to produce perfect recognition rates. However, published results have usually been produced under favorable conditions, and there have been no independent trials of the technology. The work presented in this paper involved developing an ‘open-source’ iris recognition system in order to verify both the uniqueness of the human iris and also its performance as a biometric. For determining the recognition performance of the system one databases of digitized grayscale eye images were used. The iris recognition system consists of an automatic segmentation system that is based on the Hough transform, and is able to localize the circular iris and pupil region, occluding eyelids and eyelashes, and reflections. The extracted iris region was then normalized into a rectangular block with constant dimensions to account for imaging inconsistencies. Finally, the phase data from 1D Log-Gabor filters was extracted and quantized to four levels to encode the unique pattern of the iris into a bit-wise biometric template. The Hamming distance was employed for classification of iris templates, and two templates were found to match if a test of statistical independence was failed. The system performed with perfect recognition on a set of 756 eye images; however, tests on another set of 624 images resulted in false accept and false reject rates of 0.005% and 0.238% respectively. Therefore, iris recognition is shown to be a reliable and accurate biometric technology.</p> <p>Keywords: Automatic segmentation, Biometric identification, Iris recognition, Pattern recognition, etc.</p> <p>References:</p> <ol style="list-style-type: none"> 1. S. Sanderson, J. Erbetta. Authentication for secure environments based on iris scanning technology. IEEE Colloquium on Visual Biometrics, 2000. 2. J. Daugman. How iris recognition works. Proceedings of 2002 International Conference on Image Processing, Vol. 1, 2002. 3. R. Wildes, J. Asmuth, G. Green, S. Hsu, R. Kolczynski, J. Matey, S. McBride. A system for automated iris recognition. Proceedings IEEE Workshop on Applications of Computer Vision, Sarasota, FL, pp. 121-128, 1994. 4. W. Boles, B. Boashash. A human identification technique using images of the iris and wavelet transform. IEEE Transactions on Signal Processing, Vol. 46, No. 4, 1998. 5. C. Tisse, L. Martin, L. Torres, M. Robert. Person identification technique using human iris recognition. International Conference on Vision Interface, Canada, 2002. 6. Chinese Academy of Sciences – Institute of Automation. Database of 756 Greyscale Eye Images. http://www.sinobiometrics.com Version 1.0, 2003. 7. W. Kong, D. Zhang. Accurate iris segmentation based on novel reflection and eyelash detection model. Proceedings of 2001 International Symposium on Intelligent Multimedia, Video and Speech Processing, Hong Kong, 2001. 8. L. Ma, Y. Wang, T. Tan. Iris recognition using circular symmetric filters. National Laboratory of Pattern Recognition, Institute of 	Authors:	Ashish Kumar Dewangan, Majid Ahmed Siddhiqui	Paper Title:	Iris Recognition - An Efficient Biometric for Human Identification and Verification	217-221
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	10. P. Kovsi. MATLAB Functions for Computer Vision and Image Analysis. Available at: http://www.cs.uwa.edu.au/~pk/Research/MatlabFns/index.html	
	Authors: Vineet Shekher, Pankaj Rai, Om Prakash	
	Paper Title: Comparison between classic PID, Integer Order PID and Fuzzy Logic Controller for Ceramic Infrared Heater: Analysis using MATLAB/Simulink	
41.	<p>Abstract: This paper discusses the design, simulation and performance of ceramic infrared heater controller. This heater is energy saving potential, efficient heat transfer, uniform heating, efficient and instant heat. Many industries are increasingly making use of infrared technology as a means of improving their process. This type of heating often requires a large area of floor space. This study successfully developed a controller to achieve an effective and robust control of the infrared heating process. This paper consists three main tuning methods for IR heating system controller. Firstly, it presents design of PID controller using Zeigler Nichols (ZN) technique for first order plus time delay system using open loop step response method. Secondly, it presents the design of PID controller based on gain margin and phase margin (IOPID) for the same system. Thirdly, a fuzzy logic controller used for the same system for good stability and robust performance. Performance analysis shows the effectiveness of the ZN-PID, IOPID and fuzzy logic controller.</p> <p>Keywords: Zeigler Nichols, PID, IOPID, Gain margin, Phase margin, Fuzzy Logic</p> <p>References:</p> <ol style="list-style-type: none"> 1. Adonis, M and Khan, MTE. 2001. Infrared heating profile controller. Proceedings of the 3rd International Conference on Control Theory and Applications, Dec., 445-449. 2. Adonis, M and Khan ,MTE, "PID control of infrared radiative power profile for ceramic emitters" , 2003 IFAC 3. Astrom, K.J., and Hagglund, T.: 'Automatic tuning of PID controllers' (ISA, 1988) 4. Ziegler, J.G., and Nichols, N.B.: 'Optimum settings for automatic controllers', Trans. ASME 1942, 64, pp. 759-768 5. Ho, W.K., Hang, C.C., and Cao, L.S.: 'Tuning of PID controllers based on gain and phase margin specifications', Automatica, 1995, 31, (3), pp. 497-502 6. Astrom, K.J., and Hagglund, T.: 'PID controllers: theory, design, and tuning' (Instrument Society of America, 1995, 2nd edn.) 7. R. S. Barbosa, J. A. Tenerio, Machado and Isabel. M. Ferreira, "Tuning of PID controllers based Bode's Ideal transfer function, Nonlinear Dynamics, vol. 38, pp.305- 321, 2004. 8. D. Xue, Y.Q. Chen, D. P. Atherton "Linear Feedback Control Analysis and Design with MATLAB", Advances in Design and Control, Siam, 2007. 9. Cvejn, J., 2009. Sub-optimal PID controller settings for FOPDT systems with long dead time. Journal of process control 19. 10. Ho, W.K., Hang, C.C., Zhou, J.H., 1995. Performance and gain and phase margins of well-known PI tuning formulas.IEEE Transactions on Control Systems Technology 3. 11. PID Controllers for Time-Delay Systems Guillermo J. Silva, Aniruddha Datta, S.R Bhattacharyya ,springer 2005 12. C.H. Lee and C.C. Teng, "Tuning of PID Controllers for Stable and Unstable Processes based on gain and phase margin specifications", International Journal of Fuzzy Systems, Vol. 3, No. 1, pp. 346-355. 2001. 13. Q. Yang, G. Li, X. Kang, Application of fuzzy PID control in the Heating System,Chinese Control and Decision Conference (CCDC2008). 14. J. Wang, D. An, C. Lou, Application of fuzzy-PID controller in heating ventilating and air conditioning system, in: Proceedings of the IEEE International Conference on Mechatronics and Automation, China, 2006, pp. 2217-2222. 15. Z.W. Woo, H.Y. Chung, J.J. Lin, A PID type fuzzy controller with self-tuning scaling factors, Fuzzy Sets and Systems 115 (2000) 321-326. 16. E. H. Mamdani and S. Assilian, "An experiment in linguistic synthesis with a fuzzy logic controller," Int. J. Man-Math. Stud., Vol. 7, pp. 1-13, 1975. 17. G. K. I. Mann, B. G. Hu and R. G. Gosine, "Analysis of direct action fuzzy PID controller structures," IEEE Trans. SMC. – Pt. B, Vol. 29, pp. 371-388,Jun. 1999. 18. Z.Y. Zhao, M. Tomizuka and S. Isaka, "Fuzzy gain scheduling of PID controllers," IEEE Trans. Syst., Man, Cybern., Vol. 23, pp. 1392-1398,1993. 19. S. G. Tzafestas, N. P. Papanikolopoulos, "Incremental fuzzy expert PID control," IEEE Trans. Ind. Electron., Vol. 37, No. 5, pp. 365-371, 1990. 20. S. N. Sivanandam, S. Sumathi and S. N. Deepa,Introduction to Fuzzy Logic using MATLAB, Springer Berlin Heidelberg New York,2007. 	222-227
	Authors: S. Sridevi, V. R.Vijayakumar, R. Anuja	
	Paper Title: A Survey On Medical Image Compression Techniques	
42.	<p>Abstract: Lossy compression schemes are not used in medical image compression due to possible loss of useful clinical information and as operations like enhancement may lead to further degradations in the lossy compression. Medical imaging poses the great challenge of having compression algorithms that reduce the loss of fidelity as much as possible so as not to contribute to diagnostic errors and yet have high compression rates for reduced storage and transmission time. This paper outlines the comparison of compression methods such as Shape-Adaptive Wavelet Transform and Scaling Based ROI, JPEG2000 Max-Shift ROI Coding, JPEG2000 Scaling-Based ROI Coding, Discrete Wavelet Transform and Subband Block Hierarchical Partitioning on the basis of compression ratio and compression quality.</p> <p>Keywords: Lossy Compression Ratio, Shape - Adaptive Wavelet Transform, Scaling based ROI, JPEG2000 Max – Shift ROI Coding, JPEG2000, DCT</p> <p>References:</p> <ol style="list-style-type: none"> 1. I.Ueno and W.Pearlman, "Region of interest coding in volumetric images with shape-adaptive wavelet transform", in Proc. SPIE, 2003, vol.5022. 2. C.Doukas and I.Maglogiannis, "Region of interest coding techniques for medical image compression", IEEE Eng. Med. Biol. Mag.,vol.25, no.5, Sep-Oct.2007. 3. K.Krishnan, M.Marcellin, A.Bilgin, and M.Nadar, "Efficient transmission of compressed data for remote volume visualization", IEEE Trans. Med. Imag., vol.25, no.9, Sep.2006. 4. R. Srikanth and A. G. Ramakrishnan, "Contextual encoding in uniform and adaptive mesh-based lossless compression of MR images," IEEE 	228-227

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