

PUBLICATIONS IN CONFERENCE

INTERNATIONAL CONFERENCES

MECHANICAL ENGINEERING DEPARTMENT

- **Supriyo Roy** presented a paper titled “Tribological Performance Optimization of Electroless Ni-P-W Coating Using Weighted Principal Component Analysis” authored by Prasanta Sahoo and Supriyo Roy, at the 2nd International Conference on Advanced Manufacturing and Automation (INCAMA-2013).

COMPUTER SCIENCE & ENGINEERING DEPARTMENT

- S. Chakraborty, **S. Bhowmik**; "Effect of Modified Permutation Encoding Mutation in Genetic Algorithm", in the Proceedings of the “International Conference on Computation and Communication Advancement”, ISBN: 978-1-25-906393-0, pages 69-73, McGrawHill Publication. Conference was co-sponsored by IEEE Kolkata section and organized by JIS College of Engineering, Kalyani in January, 2013.
- **Sanghamitra Das**, “Survey based on Recent Trends of Data Mining in Various Fields” published in Second International Conference on Computing and Systems (ICCS-2013), ISBN-13:978-9-35-134273-1, MC-GRAW HILL PROFESSIONAL was held on September, 2013 organized by Computer Science Department, University of Burdwan.
- **S. Hore, M. Saha**; “Gesture Based Application in Virtual Environment using Color Object Detection”, in the Proceedings of the “International Conference on Computational and Communication Advancement”, ISBN: 978-1-25-906170-7, pages 278-281, McGrawHill Publication. Conference organized by JIS College of Engineering and was co-sponsored by IEEE Kolkata section, India in January, 2013.
- A. Ghosal, S. Ghosh, S. Dutta, **S. Hore**; “Gesture Based Application in Virtual Environment using Color Object Detection”, in the Proceedings of the “International Conference on Communicational and Computational Advancement”, ISBN: 978-1-25-906170-7, pages 278-281, McGrawHill Publication. Conference organized by JIS College of Engineering and was co-sponsored by IEEE Kolkata section, India in January, 2013.

ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

- **M. Dam**, P. Ghosh, and M. Biswas, “Improved Cavity Model to Compute the Resonant Resistance of an Equilateral Triangular Patch Antenna With and Without Air Gap,” in International Conference on Computation and Communication Advancement (IC3A-2013), Jan. 11-12, 2013, Nadia, India.
- **M. Dam** and M. Biswas, “Fast and Accurate Model to Compute the Resonant frequency of Triangular Patch Antenna on Suspended and Composite Substrates,” in International Conference on Communications, Devices and Intelligent Systems (CODIS-2012), Dec. 28-29, 2012, Kolkata, India.

GENERAL SCIENCE & HUMANITIES DEPARTMENT

- Anindya Banerji, Prasanta K Panigrahi, Ravindra Pratap Singh and **Abir Bandyopadhyay**, “Entanglement and Non Classicality of Generalized Quantum Optical Vortex States”, AQIS 2013, Institute of Mathematical Sciences, Chennai, 2013.
- Anindya Banerji, Ravindra Pratap Singh, and **Abir Bandyopadhyay** Entanglement using Wigner Function: A case of generalized quantum optical vortex states, 2nd QuICC Summer School on Quantum Information, Computation and Control, Imperial College, London, 2013.
- Anindya Banerji, Ravindra Pratap Singh, and **Abir Bandyopadhyay** and Quadrature Uncertainty and Information Entropy of Quantum Elliptical Vortex States, ICQIQ, Indian Institute of Science, Bangalore, 2013.
- Dilip Kumar Giri, Ravindra Pratap Singh and **Abir Bandyopadhyay**, “Displacement Gain dependent fidelity in quantum teleportation using entangled two-mode squeezed light”, Opt. Quant. Electron. (2013, DOI 10.1007/s11082-013-9843-5)

- **Anindya Banerjee**, R. P. Singh and **Abir Bandyopadhyay**, “Entanglement measure using Wigner function: case of generalized vortex state formed by multi-photon subtraction”, Opt Commun. (Accepted, DOI:10.1016/j.optcom.2014.05.035)
- **Subham Ganguly**, “Changing Trends in Indian Print Advertising”, International Journal of English Language, Literature & Humanities, Volume- I, Issue IV, pp. 137-150, December 2013, ISSN: 2321-7065.
- **Subham Ganguly**, “An Ode to my Confusions”, The Criterion: An International Journal in English, Volume- V, Issue- I, pp. 390-91, February 2014, ISSN: 0976- 8165.
- **Subham Ganguly**, “Bhooter Bhabhisyat: Satire and Society”, International Journal of English Language, Literature & Humanities, Volume- II, Issue- I, pp. 281-283, April 2014, ISSN: 2321-7065.

❖ NATIONAL CONFERENCE

MECHANICAL ENGINEERING DEPARTMENT

- **Supriyo Roy** presented a paper titled “Tribological Performance Optimization of Electroless NI-P-W Coating Using Weighted Principal Component Analysis” authored by Prasanta Sahoo and Supriyo Roy, at the 2nd International Conference on Advanced Manufacturing and Automation (INCAMA-2013).

ELECTRICAL ENGINEERING DEPARTMENT

- **Anikendu Maitra** presented a paper titled “Modeling and Harmonic study of non-linear domestic loads” authored by **Anikendu Maitra**, **Sandip Das** and **Sajal Kumar Bandyopadhyay**, at the 2nd Michael Faraday IET India Summit-2013(MFIIS-2013).

COMPUTER SCIENCE & ENGINEERING DEPARTMENT

- D. Mondal, P. Paul, **S. Bhowmik**; “Chaos and Cryptography”, in the Proceedings of National Conference on “Recent Development in Electrical, Electronics & Engineering Physics”, ISBN: 978-81-8424-877-7, pages 80-84. Conference was co-sponsored by IET, Kolkata Chapter and organized by MCKV Institute of Engineering, Howrah in October, 2013.
- S. Bhattacharya, A. Banik, **S. Bhowmik**; “Security Analysis of Chaotic Map based Image Encryption System” in the Proceedings of National Conference on “Recent Development in Electrical, Electronics & Engineering Physics”, ISBN: 978-81-8424-877-7, pages 85-89. Conference was co-sponsored by IET, Kolkata Chapter and organized by MCKV Institute of Engineering, Howrah in October, 2013.
- **Sumanta Daw**; “Online Compound Word Recognition using MLP” - published in National conference on Advancement of Computing in Engineering and Research-2013 (ISBN: 978-1-921987-11-3), IEEE Kolkata Chapter, Page: 69-76 and also published in <http://airccse.org/journal.html> (ISSN: 2231 5403).
- S. Chatterjee, S. Paladhi, **S. Hore**; “Sudoku solving Algorithm a brief review” in the Proceedings of National Conference on “Recent Development in Electrical, Electronics & Engineering Physics”, ISBN: 978-81-8424-877-7, pages 85-89. Conference was co-sponsored by IET, Kolkata Chapter and organized by MCKV Institute of Engineering, Howrah in October, 2013.
- A. P. Kumar, D. Mangar, **S. Hore**; “Security Analysis of Chaotic Map based Image Encryption System” in the Proceedings of National Conference on “Recent Development in Electrical, Electronics & Engineering Physics”, ISBN: 978-81-8424-877-7, pages 85-89. Conference was co-sponsored by IET, Kolkata Chapter and organized by MCKV Institute of Engineering, Howrah in October, 2013.

ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

- **M. Dam**, and M. Biswas, “CAD model to compute the effect of air gap on the band width of an equilateral triangular patch antenna,” in Antenna Test and measurement Society conference (ATMS-2013), Feb, 2013, Mumbai, India.
- **M. Dam**, and M. Biswas, “CAD Model to Compute the Resonant Frequency of triangular Patch Antenna with and without Air Gap,” Proc. of Antenna Test and measurement Society conference (ATMS-2012), pp.153-156, Feb.2-3, 2012, Mumbai, India.

- **S. Malik**, Subhadip Das and Subhajit Pandit, “A Pioneering Approach to Design a 4-Bit Arithmetic Logic Unit using Artificial Neural Network” in AICTE Sponsored National Conference on Control, Communication & Device Electronics N3CD-2013, organized by JIS College of Engineering, Kalyani , W.B
- **Subhojit Malik**, Palash Dutta , Sayantan Chakrabarti , Abhishek Barman , “Survey on Biogeography Based Optimization Algorithm and Application of Biogeography Based Optimization to determine Parameters of PID Controller”, in International Journal of Advanced Research in Computer and Communication Engineering , Vol. 3 , Issue 2 , February 2014 , pp : 5625 – 5629 , ISSN (Online) : 2278-1021, ISSN (Print) : 2319 – 5940
- **Subhojit Malik**, Palash Dutta , Sayantan Chakrabarti , Abhishek Barman , “Parameter Estimation of a PID Controller using Particle Swarm Optimization Algorithm”, in International Journal of Advanced Research in Computer and Communication Engineering , Vol. 3 , Issue 3 , March 2014 , pp : 5827 – 5830, ISSN (Online) : 2278-1021 , ISSN (Print) : 2319 – 5940
- **Subhojit Malik**, Palash Dutta , Sayantan Chakrabarti, “Parameters Estimation of a PID Controller using Evolutionary Algorithms”, in Progress in Science and Engineering Research Journal, PISER 13, Vol. 02, Issue : 03/06 May-June 2014, pp : 179-185, ISSN 2347-6680 (E)
- Mousumi De, **Biswajit Basak**, Sudarshan Chakravorty “Evaluation of Optimized PAPR and BER of OFDM signal by using Clipping and Filtering Technique”, in International Journal of Computer Science and Information Technologies, Vol. 5 (1) , 2014, Pg: 361-365,ISSN:0975-9646
- **Biswajit Basak**, Mousumi De “Evaluation of optimized PAPR of OFDM signal by using SLM technique”, in International Journal of Computer Science and Information Technologies, Vol. 5 (1) , 2014, Pg:542-546 , ISSN:0975-9646
- **Biswajit Basak**, Mousumi De ”Performance Analysis of QPSK Modulation Schemes using Gray & Naive Coding with Rayleigh Fading Channel” , in International Journal of Advance Research In Science And Engineering, Vol. No.3, Issue No.2, February 2014, Pg: 32-38, ISSN:2319-8354(E)
- **Biswajit Basak**, Soumya Bag ,Sourabh Biswas , Sudipto Basak “A Review: An Approach of Different Types of Clustering Methods for Data Mining”, in International Journal of Research in Information Technology, Volume 2, Issue 2, February 2014, Pg: 100- 106, ISSN : 2001-5569
- **Biswajit Basak**, Pritam Ghosh, Tanushree Koley, Sudipto Basak “Image Segmentation by Using Different Types of Edge Detection Algorithm with Different Thresholds”, in International Journal of Computer Science and Mobile Applications, Vol.2 Issue. 3, March- 2014, pg. 1-8 ISSN: 2321-8363

CIVIL ENGINEERING DEPARTMENT

- A Bhowmik, B Tudu, **I. Mukherjee**, K.K.Mandal, N. Chakroborty, “Renewable energy for sustainable development of India: Review on status, potential and policies”, Abstract published in the Proceeding of international Seminar on “Society, Politics and Climate Change” organized by Khandwala College, IIFM, USIEF held at Nagindas Khandwala College, Malad (West) Mumbai on 3rd-4th Dec, 2012.
- S.Choudhury, **T. Ghosh**, **R. Paul**, B.Tudu, **I. Mukherjee**, “Transition from Fossil Fuel to Non-Conventional Sources-A solution for the Future in India”, Abstract published in the proceeding of International Seminar on “Society, Politics and climate Change” organized by Khandwala College, IIFM, USIEF held at Nagindas Khandwala College, Malad(west) Mumbai on 3rd -4th Dec, 2012.
- **Arpita Das**, Somnath Karmakar, Showmen saha “Strengthening of concrete column by using Glass Fiber Reinforced Polymer “Abstract published in the proceeding of national Seminar on “Sustainable Infrastructure Development(SID)” organized by IIT Bhubaneswar, Odisha, India on 7th to 9th Feb 2013 , pp 32-37.
- **S. Mandal**, S. Patra, A. K. Bera “Effect of u/B ratio on bearing capacity of square footing on reinforced sand a FEM based analysis”, Abstract published in the Proceeding of national Seminar on “Indian Geotechnical Conference” organized by IIT roorkee , Uttarakhand, India on 22nd -24th Dec, 2013.

❖ INTERNATIONAL JOURNAL

MECHANICAL ENGINEERING DEPARTMENT

- **A. Dutta**, A.K. Das and S. Chakraborty: “Study on the Effect of Cooling Water Temperature Rise on Loss Factor and Efficiency of a Condenser for a 210 MW Thermal Power Unit”; International Journal of Emerging Technologies and Advance Engineering, 2013, volume 3, pp. 485-489.

ELECTRICAL ENGINEERING DEPARTMENT

- **A. Maity**, K. Bhattacharya, A.N. Sanyal, “Small Signal Stability Analysis of Synchronous Generators Connected to Infinite Bus”, International Journal of Emerging Technology and Advanced Engineering, Volume 3, Issue 10, October 2013.

COMPUTER SCIENCE & ENGINEERING DEPARTMENT

- **Sumanta Daw**, “A Font Invariant Ol Chiki Basic Character Recognition Using Digital Curvelet Transformation”, Second International Conference on Computing and System - Sep’2013 (ISBN-13:978-9-35-134273-1 MC GRAWHILL PROFESSIONAL), Page: 330-334 and also selected to published in International Journal of Mathematics and Computational methods in science and Technology (ISSN: 2249-8915).
- **Rupam Some**, “Survey on Social Network Analysis and Futute Trends” Published in International Journal of advanced research in computer and communication engineering, Vol-2, issue 6, June 2013, ISSN – (print):2319-5940, ISSN (online):2278-1021 www.ijarce.com. Certificate no: V2I6C036-1/1.

GENERAL SCIENCE & HUMANITIES DEPARTMENT

- Anindya Banerji, Prasanta K Panigrahi, Ravindra Pratap Singh, **Saurav Chowdhury** and **Abir Bandyopadhyay**, Quadrature uncertainty and information entropy of quantum elliptical vortex states, J. Phys. A: Math. Theor. 46 (2013) 225303.

❖ NATIONAL JOURNAL

ELECTRICAL ENGINEERING DEPARTMENT

- **A. Maity**, K. Bhattacharya, A.N. Sanyal, “Procedure and program for power capacitor design for shunt compensation & power factor improvement”, Indian Journal of Power and River Valley Development, Volume. 63, Nos. 5&6, May –June-2013.
- **A. Maity**, K. Bhattacharya, A.N. Sanyal, "Study on voltage stability of transmission lines under large reactive power burden” Indian Science Cruiser, Institute of Science, Education and Culture, Volume-27, Number-3, May 2013.

CIVIL ENGINEERING DEPARTMENT

- **I. Mukherjee**, S. Majumder, **R. Majumder**, P.P. Mondal, “Importance of Mangrove Ecosystems” ,Published in the joint of the Institution of public Health Engineers, India (JIPHE),Volume 2012-13, No 1 ,April 2012, pp 08-10.

OTHER AREAS

- **Dr. Nemailal Tarfder** (Principal), “Oven Filter Fabrics : Industrial Applications (Part-I)”; Man-Made Textiles in India (MMTI) , May, 2013, volume XLI, No. 5, pp. 154 - 158.
- **Dr. Nemailal Tarfder** (Principal), “Oven Filter Fabrics : Industrial Applications (Part-II)”; Man-Made Textiles in India (MMTI) , July, 2013, volume XLI, No. 7, pp. 243 - 247.
- **Dr. Nemailal Tarfder** (Principal), “Textiles For Protection against Harmful Ultraviolet Radiation”; Man-Made Textiles in India (MMTI) , September, 2013, volume XLI, No. 9, pp. 213 - 222.

RECENT RESEARCH PUBLICATIONS OF STUDENTS

- Souvik Chakroborty of 3rd year **Computer Science & Engineering** (2009-13 Batch) under the supervision of Prof S. Bhowmik published paper titled "Job Shop Scheduling using Simulated Annealing", in the Proceedings of the "International Conference on Computation and Communication Advancement", ISBN: 978-1-25-906393-0, pages 69-73, McGrawHill Publication. Conference was co-sponsored by IEEE Kolkata section and organized by JIS College of Engineering, Kalyani in January, 2013.
- Asesh Ghosal, Soham Datta and Santanu Ghosh of **Computer Science & Engineering** 4th year (2009-13 batch) under the supervision of Prof. S. Hore published a paper titled "Gesture Based Application in Virtual Environment using Color Object Detection", in the Proceedings of the "International Conference on Communicational and Computational Advancement", ISBN: 978-1-25-906170-7, pages 278-281, McGrawHill Publication. Conference organized by JIS College of Engineering and was co-sponsored by IEEE Kolkata section, India in January, 2013.
- Dipankar Mondal and Projesh Paul of 4th year **Computer Science & Engineering** (2010-14 Batch) under the supervision of Prof S. Bhowmik published paper titled "Chaos and Cryptography", in the Proceedings of National Conference on "Recent Development in Electrical, Electronics & Engineering Physics", ISBN: 978-81-8424-877-7, pages 80-84. Conference was co-sponsored by IET, Kolkata Chapter and organized by MCKV Institute of Engineering, Howrah in October, 2013.
- Shankhadeep Chatterjee and Souvik Paladhi of 3rd year **Computer Science & Engineering** (2011-15 Batch) under the supervision of Prof S. Hore published paper titled "Sudoku Solving Algorithm - a Brief Review" in the Proceedings of National Conference on "Recent Development in Electrical, Electronics & Engineering Physics", ISBN: 978-81-8424-877-7, pages 61-66. Conference was co-sponsored by IET, Kolkata Chapter, IEEE Kolkata Section, IETE and organized by MCKV Institute of Engineering, Howrah in October, 2013.
- Soumodip Bhattacharya and Aarnab Banik of 4th year **Computer Science & Engineering** (2010-14 Batch) under the supervision of Prof S. Bhowmik published paper titled "Security Analysis of Chaotic Map based Image Encryption System" in the Proceedings of National Conference on "Recent Development in Electrical, Electronics & Engineering Physics", ISBN: 978-81-8424-877-7, pages 85-89. Conference was co-sponsored by IET, Kolkata Chapter and organized by MCKV Institute of Engineering, Howrah in October, 2013.
- Praneet Kumar, Darshan Mangar of 4th year **Computer Science & Engineering** (2010-14 Batch) under the supervision of Prof S. Hore published paper titled "Quantum Cryptography a Modern Era in cryptography - A Brief Survey" in the Proceedings of Michael Faraday IET India Summit-2013, ISBN: 978-93-82715-97-9, pages 2.7-2.13. Conference was co-sponsored by IET, Kolkata Chapter and organized by Young People Section, IET, Kolkata Local Network in November, 2013.