**4th International Conference on Technical and Managerial Innovation in Computing and Communications in Industry and Academia**

**TECHNICAL SESSION -1A**

Computer Science & Technology

Date: 23.08.2013

**Hall Name: C V Raman Time: 2 PM to 3.30 PM**

Chair Person: Prof. Amlan Chakraborty

Co-Chair Person: Prof. Prabhat Kumar Sinharoy

Rapporter: Prof. Tuhin Utsav Paul

**Invited Talk: EEG signal to determine perception delay**

**Speaker: Dr. Gautam Chakraborty, Iwate University, Japan**

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| Paper  ID | Paper Title | Authors |
| 2 | Balanced Energy Consumption Approach for Deployment of Clusters in a WSN | Debajyoti Pal and Gopal Kundu |
| 15 | Color Image Segmentation And Image Registration using Type 2 Fuzzy Sets | Himadri Moulick and Anindita Chatterjee |
| 30 | An ANFIS -based Model for Mobile Learning System | [Mujib Tamboli](http://www.nitie.edu) and [Pradip Biswas](http://www.nitie.edu) |
| 56 | Machine to Machine (M2M) | [Kaushik Saha](http://www.ericsson.com/in) |
| 62 | A simple circuit based approach for GMSK modulation & demodulation | Suchismita Das, Ritika Das, Swarnali Datta, Nandini Chakraborty and Bhaskar Som |

**TECHNICAL SESSION -1B**

Computer Science & Technology

Date: 23.08.2013

**Hall Name: C V Raman Time: 3.30 PM to 5 PM**

Chair Person: Prof. Kallol Bhattacharyya

Co-Chair Person: Prof. Debika Bhattacharya

Rapporter: Prof. Nilanjana Duttaroy

**Invited Talk: Computational intelligence for analysis of online social media**

**Speaker: Dr. Basabi Chakrabarty, Iwate University, Japan**

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| Paper  ID | Paper Title | Authors |
| 63 | A Tradeoff between Local and Global Thresholding Technique for Binarization of Document Image Processing | Souvik Malakar |
| 67 | Mobile Money Services | Rupal Sen |
| 68 | The Emergence of the Networked Society | Amitava Mukherjee |
| 73 | Small length DVB-S2 type LDPC Codes | Ankita Pramanik, Gangamma Patil and Lotiswar Borman |
| 94 | Person Recognition from Walking Dataset Using Kinect Sensor | Sriparna Saha, Amit Konar and Ramadoss Janarthanan |

**TECHNICAL SESSION -2A**

Advanced Computation

Date: 23.08.2013

**Hall Name: S N Bose Time: 2 PM to 3.30 PM**

Chair Person: Prof. Jyoti Prakash Bandyopadhyay

Co-Chair Person: Prof. Mahuya Chakraborty

Rapporter: Prof. Arunava Mukhopadhyay

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| Paper  ID | Paper Title | Authors |
| 9 | An Efficient ANN based Human-Machine Interaction through Voice Command Recognition using Bengali Language | Tiyasa Chakraborty, Sanjay Kumar Singh, Prateek Agrawal and Saruchi Kukkar |
| 18 | Generation of AES S-Boxes with Various Additive Polynomials and Testing their Randomization | |  |  | | --- | --- | |  | [S Das](http://www.irpel.org/), J.K.M.S. Uz Zaman and R Ghosh | |
| 41 | Capabilities of existing network architecture model and ways to mitigate cyber attacks | Partha S. Nayak, Shrikant Sharma and Shashi K. Sharma |
| 45 | An Approach to Detect Slang Words in e-Data | Alok Ranjan Pal and Diganta Saha |
| 50 | Word Sense Disambiguation: Speed up and Filtering through Part-of-Speech Tagging | Alok Ranjan Pal, Anupam Munshi and Diganta Saha |
| 57 | Design And Implementation Of 16 BIT Low Power FPGA Based Risk Embedded Processor Using VHDL | Tarun Kumar Sharma and Dr. Soumitra Kumar Mandal |
| 65 | Design & Implementation of a Comment Spam Filtering System on a Web Blog | Sankar Sau, Samir Roy, Kingshuk Mandal and Sandip Kunar |

**TECHNICAL SESSION -2B**

Advanced Computation

Date: 23.08.2013

**Hall Name: S N Bose Time: 3.30 PM to 5 PM**

Chair Person: Prof. Chandan Sarkar

Co-Chair Person: Prof. Subrata Kumar Basak

Rapporter: Prof. Kajori Sur

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| Paper  ID | Paper Title | Authors |
| 70 | Duo-Histogram Equalization method for Contrast Enhancement for Images using Power-Law Transformation of Mean based on Kurtosis | Satyasaran Changdar, Surajit Kumar Mondal, Sourav Maji and Soumen Dey |
| 75 | Edge Detection of Document Image using Shifting and Subtraction Method with Improved Performance | Biswajit Paul, Dibyendu Ghoshal, Shaifali Pande and Vivek Bhadouria |
| 76 | Secure Routing Procol in MANET BASED on Fitness of a Node | Procheta Sen, Ritu Jain, Debasmita Dutta and Gairika Nandi |
| 89 | A Novel Algorithm for Edge Thinning in Binary Digital Images | Dibyendu Ghoshal and Biswwajit Paul |
| 106 | An Exhaustive Study on Elimination based Sudoku Solver | Arnab Kumar Maji, Sunanda Jana, Sudipta Roy and Rajat Kumar Pal |
| 111 | Application of General Fuzzy Min-Max Neural Network for the Clustering of Satellite Thermal Infrared Images | Barnali Goswami and Gupinath Bhandari |

**TECHNICAL SESSION -3A**

Electronics & Communication

Date: 23.08.2013

**Hall Name: J C Bose Time: 2 PM to 3.30 PM**

Chair Person: Prof. Somnath Sarkar

Co-Chair Person: Prof. Ajoy Chakraborty

Rapporter: Prof. Abhishek Bhattacharyya

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| Paper  ID | Paper Title | Authors |
| 6 | Optimization in MEMS Switch Designing for Ku / Ka Applications | Poonam Verma and Ayan Karmakar |
| 13 | All-optical Adder with the Help of Terahertz Optical Asymetric Demultiplexer Based Switch | |  |  | | --- | --- | |  | Imran Hasan Choudhury, Arunava Bhattachrayya, Indranil Jana, Dilip Kumar Gayen and Tanay Chattopadhyay | |
| 21 | Study of Surface Potential and Threshold Voltage for non-uniformly doped DHDMG n-Mosfet | Dr. Swapnadip De, Dr. Angsuman Sarkar, Manash Chanda and Dr.Chandan Kumar Sarkar |
| 49 | Design of a Microstrip Line fed Rectangular Slot Antenna and its Response under Slit Loading | Ishani Chatterjee and Arunava Mukhopadhyay |
| 69 | Gain calculation of Semiconductor Optical Amplifier in Mach-Zehnder Interferometer Optical Switch | [Indranil Jana](http://www.cemkolaghat.org/), Imran Hasan Choudhury and Dilip Kumar Gayen |
| 80 | Comparison of Antireflection Property Between PS/Si Surface and PS on Textured Si Surface | [Debashis Jana](http://wbut.ac.in/) and [Madhumita Das Sarkar](http://wbut.ac.in/) |
| 82 | Design and Analysis of a Compact Rectangular Microstrip Patch Antenna with Defected Ground Structure | Srijita Chakraborty, Mrinmoy Chakraborty and Srikanta Pal |
| 83 | Comparative study of electrical properties of vapor phase stain etch and metal assisted stain etch based porous silicon for device applications | [Animesh Pal](http://www.wbut.ac.in/) and [Madhumita Das Sarkar](http://www.wbut.ac.in/) |

**TECHNICAL SESSION -3B**

Electronics & Communication

Date: 23.08.2013

**Hall Name: J C Bose Time: 3:30 PM to 5:00 PM**

Chair Person: Prof. Sujit Kumar Bandyopadhyay

Co-Chair Person: Prof. Dipak Chatterjee

Rapporter: Prof. Koel Ganguly

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| Paper  ID | Paper Title | Authors |
| 88 | Structural and Optical Properties of Multiple Etched Silicon-Porous silicon Structure | [Sanchali Mitra](http://www.wbut.ac.in/) and [Madhumita Dassarkar](http://www.wbut.ac.in/) |
| 91 | A Multi-layered Broadband Frequency Selective Surface for X and Ku band Applications | |  |  | | --- | --- | |  | [Ayan Chatterjee](http://www.skf.edu.in/) and [Susanta Parui](http://www.becs.ac.in/) | |
| 100 | Directional Light Extraction Efficiency Enhancement of LED Using Nanostructure 1D Triangular GaN Grating on the Top | R Ghosh, K. K. Ghosh and R Chakraborty |
| 101 | Design and Development of Optimum Structures for Multi-Component Zoom Lenses using Prophylactic Strategy | [Indrani Bhattacharya](http://www.iem.edu.in/) and [L. N. Hazra](http://www.caluniv.ac.in/) |
| 105 | Design of Combinational and Sequential Circuits using Threshold Logic | Mili Sarkar, Subhadeep Nag, Prasenjit Sengupta and Shilpi Raj |
| 107 | Optimal Design of Row/Column Decoder Segment of ROM Design in QCA | Ratna Chakrabarty, Arunava Mukhopadhyay, Sayak Pramanik, Chiradeep Mukherjee and Debashish De |
| 108 | A low energy multi-purpose implanter based on ECR plasma | |  |  | | --- | --- | |  | [G. S. Taki](http://www.iemcal.com/) and [K. K. Ghosh](http://www.iemcal.com/) | |

**TECHNICAL SESSION -4A**

Management & Finance

Date: 23.08.2013

**Hall Name: M N Saha Time: 2:00PM to 3:30PM**

Chair Person: Prof. Pradip Kumar Mishra

Co-Chair Person: Prof. Shaktipada Nanda

Rapporter: Prof. Sumouli Bhaduri Pyne

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| Paper  ID | Paper Title | Authors |
| 31 | Qualitative Approach Towards Risk Assessment And Management: An Innovative Management Tool For Sustainable Development Of Micro, Small And Medium Enterprises [MSMEs] In India | Rajib Bhattacharya and Snehagopal Goswami |
| 39 | Financial Inclusion Plan in India and its Broader Perspectives | [Sujoy Dhar](http://www.ibsindia.org/) |
| 47 | Review on Direct Petrol Injection in SI engines without using Conventional Carburetor system | Gautam Ghosh and Bankim Bihari Ghosh |
| 58 | Tracing the factors behind eWOM behaviour in Social Networking Sites (SNSs): An Innovative Experiment | Debabrata Das |
| 59 | Innovation skills for engineers | K S Sudeendra Thirtha Koushik and Dr Bindu A Thomas |
| 60 | On the Science of Interviewing | |  |  | | --- | --- | |  | [Dipak Chatterjee](http://www.iem.edu.in/) | |
| 71 | Customer Experience Management | [Arijit Roy](http://www.ericsson.com/) |

**TECHNICAL SESSION -4B**

Biomedical Science & Engineering

Date: 23.08.2013

**Hall Name: M N Saha Time: 3:30PM to 5:00PM**

Chair Person: Prof. Barun Kumar Chatterjee

Co-Chair Person: Prof. Anima Sen

Rapporter: Prof. Triparna Datta

**Invited Talk: Biomedical Technologies–Opportunities in Diagnostics and**

**Healthcare**

**Speaker: Dr. Eric Yap, National University of Singapore**

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| Paper  ID | Paper Title | Authors |
| 12 | Prediction of prominent Genes for Insulin Effect using Rough Set Theory | Srirupa Dasgupta, Dr Gautam Saha, Ritwik Mondal and Rajat Pal |
| 19 | Electrical Network Modeling of Amino Acid and its Characterization | T Roy and [S Barman](http://www.irpel.org/) |
| 32 | Classification of Cardiac Blocks using Wavelet Delineated Cardiac Cycles | Anandarup Mukherjee, Nidhi Pathak and Sumedha Bhattacharyya |
| 38 | Ablation of Gastrointestinal Tumors by Nd-YAG Laser (1064 nm) Using Polymer Optical Fiber (POF) Based Endoscope | [Debadyoti Ghosh](http://www.iemcal.com/) |
| 93 | Extraction and Authentication of Hidden Patient’s Information from Biomedical Image through Crypto-Watermarking Technique | |  |  | | --- | --- | |  | Subhajit Koley, Koushik Pal, Goutam Ghosh and Mahua Bhattacharya | |
| 104 | Effect of magnetic field on flow behaviour of blood through a modeled Atherosclerotic artery | Biswadip Basu Mallik, Saktipada Nanda, Kaustubh Sengupta, Iman Roy and Debosmita Sarkar |