



**The 2nd International Conference on
Advances in Electrical Engineering, 2013
(ICAEE 2013)**

December 19-21, 2013

Venue: Independent University, Bangladesh

Program Schedule



Organized by

Independent University, Bangladesh



Technical Co-sponsor

The Institution of Engineering and Technology



Technical Co-sponsor

The Institution of Electrical & Electronics Engineers

Conference Program Schedule

December 18, 2013

Registration & Conference Kit Distribution

Time: 2:00 PM – 5:00 PM

Venue: Level 5 Lobby, Academic Block

Day 1

December 19, 2013

Registration & Conference Kit Distribution

Time: 08:00 AM – 8:45 AM

Venue: Level 5 Lobby, Academic Block

Inaugural Session

Time: 09:00 AM - 10:00 AM

Venue: Lecture Gallery 5002, Level 5, Academic Block

- | | |
|----------|---|
| 9:00 AM | Welcome address by Dr. Ali Shihab Sabbir, Dean, School of Engineering & Computer Science, Independent University, Bangladesh |
| 9:05 AM | Address by Dr. Pran K. Saha, President, IEEE Bangladesh Section |
| 9:10 AM | Address by Dr. Shamimuzzaman Bosunia, President, The Institution of Engineers Bangladesh |
| 9:15 AM | Address by Dr. Mohammad S. Alam, Chair, International Program Committee, ICAEE 2013 |
| 9:25 AM | Address by Special Guest, Mr. Dan W. Mozena, Honorable Ambassador of the United States to Bangladesh |
| 9:35 AM | Address by the Chief Guest, Dr. Samir M. El-Ghazaly, Division Director – ECS, National Science Foundation, USA |
| 9:45 AM | Address and Official Inauguration by the Guest of Honor, Mr. Saifur Rahman, Chair, ESTCDT, Independent University, Bangladesh |
| 9:55 AM | Address & Vote of Thanks by Dr. M. Abdur Razzak, Chair, Local Organizing Committee, ICAEE 2013 |
| 10:00 AM | End of Inaugural Session |

Tea Break

Time: 10:00 AM - 10:30 AM, **Venue:** Level 5 Lobby, Academic Block

Panel Session

Time: 10:30am – 12:30pm

Venue: Lecture Gallery 5002, Level 5, Academic Block

Panel Moderator: Prof. Mohammad S. Alam, University of South Alabama, USA

Panel on the “Future of Engineering Education and Research in Bangladesh – Prospects and Challenges”

Panel Members:

Prof. Samir M. El-Ghazaly, Division Director-ECS, National Science Foundation, USA

Prof. Jamilur Reza Choudhury, Vice Chancellor, University of Asia-Pacific, Bangladesh

Prof. Shamimuzzaman Bosunia, President, Institute of Engineers Bangladesh

Dr. Sabariah Baharun, Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia

Dr. Ali Shihab Shabbir, Dean, School of Engineering & Computer Science, Independent University, Bangladesh

Prof. M. M. Shahidul Hassan, Board of Accreditation for Engineering & Technical Education

Prof. Rezwana Khan, Vice Chancellor, United International University, Bangladesh

Prof. Saifur Rahman, Director, Virginia Tech Research Institute, USA

Lunch Break

Time: 12:30 PM - 2:00 PM, Venue: IUB Cafeteria, Library Building, Ground Floor

Plenary Session

Session Chair: Dr. Mohammad S Alam, University of South Alabama, USA

Key Note 1

Time: 2:00 PM - 2:35 PM

Venue: Lecture Gallery 5002, Level 5, Academic Block

Title: Advancing Society Through Scientific Research: Needs and Trends

Speaker: Dr. Samir M. El-Ghazaly
Division Director, ECS, National Science Foundation, USA

Key Note 2

Time: 2:35 PM - 3:10 PM

Venue: Lecture Gallery 5002, Level 5, Academic Block

Title: Video Forgery and Motion Editing

Speaker: Dr. Timothy K. Shih
Professor, National Central University, Taiwan

Key Note 3

Time: 3:10 PM - 3:45 PM

Venue: Lecture Gallery 5002, Level 5, Academic Block

Title: Fusion Energy: Present Status and It's Future

Speaker: **Dr. Shuichi Takamura**
Professor, Aichi Institute of Technology, Japan

Key Note 4

Time: 3:45 PM - 4:20 PM

Venue: Lecture Gallery 5002, Level 5, Academic Block

Title: **Role of Renewable Energy and Energy Efficiency Towards Mitigating the Energy Crisis in Bangladesh**

Speaker: **Dr. Saifur Rahman**
Director, Virginia Tech Advance Research Institute, USA

Tea

Time: 4:30 PM - 4:45 PM, **Venue:** Level 5 Lobby, Academic Block

Day 2

December 20, 2013

Technical Session 1-1: Digital Signal and Image Processing-I

Time: 9:00 AM – 10:30 AM

Venue: Room 6009, Level 6, Academic Block

Session Chair: Dr. Khan Wahid, University of Saskatchewan, Canada

Paper ID 19 - Performance Analysis of Low Pass FIR Filters Design Using Kaiser, Gaussian and Tukey Window Function Methods

Tushar Kanti Roy

Paper ID 48 - Active Noise Control Using Filtered-xLMS and Feedback ANC Filter Algorithms

Tushar Kanti Roy, Monir Morshed

Paper ID 66 - Fast Protein Network Clustering Algorithm: A New Approach for Clustering Protein-protein Interaction Networks to Detect Functional Modules

Mohammad Shamsur Rahman, Mohammad Shahedul Islam, Nafisa Chowdhury, Md. Mahboob Karim

Paper ID 68 - A Less Computation Intensive Non-Rigid Image Registration by Modifying Demons Deformation Algorithm

Pulak Mondal, Ashutosh Mishra, Swapna Banerjee

Paper ID 75 - Performance Evaluation of Furthest k Neighbors Queries in Spatial Databases

Mahady Hasan, Muhammad Aamir Cheema, Md Rakibul Alam

Paper ID 85 - Speech Enhancement Using Spectral Weighting with EMD-Based Post Filtering

Most. Sheuli Akter, Md. Rabiul Islam, K. Hirose, Md. Khademul Islam Molla, Md. Rashed-Al-Mahfuz

Technical Session 1-2: Electronic and Optoelectronic Devices-I

Time: 9:00 AM – 10:30 AM

Venue: Room 6013, Level 6, Academic Block

Session Chair: Prof. U. A. Mofiz, Brac University, Bangladesh

Paper ID 14. Investigation of Propagation Properties of Surface Plasmon Polariton Mode in AlGaAs/Ag/AlGaAs Waveguide

Md. Ghulam Saber, Rakibul Hasan Sagor, Md. Thesun Al-Amin, Asif Al Noor

Paper ID 41. Optical Solitons in Negative-Index Meta-Materials

U. A. Mofiz

Paper ID 42. Study of Structural and Optical properties of Spray deposited Co doped ZnO thin film

Shimul Kanti Nath, Mohammad Hasanuzzaman Shawon, Subarto Kumar Ghosh, Md. Ashifur Rahman

Paper ID 58. Design of a Tunable High Q Photonic Band Edge Cavity on Ferroelectric Barium Titanate

Ashfaquul Anwar Siraji, M. Shah Alam

Paper ID 63. Analysis of Group-III Nitride Heterostructure Based Optoelectronic Devices

Sumit Narayan Saurov

Paper ID 102. Wideband Photovoltaic Energy Conversion Using Group III-Nitrides

Sumit Narayan Saurov, A. F. M. Saniul Haq, Muhammad Anisuzzaman Talukder

Paper ID 118. Improved Quantum Efficiency with Increasing Number of Dot Sizes in Quantum Dot Doped Silicon Solar Cell

Faria Kamal, Takia Zaman, K. M. A. Salam

Tea Break

Time: 10:30 AM - 11:00 AM, **Venue:** Level 5 Lobby, Academic Block

Technical Session 2-1: Nanotechnology, MEMS and NEMS

Time: 11:00 AM – 12:30 PM

Venue: Room 6009, Level 6, Academic Block

Session Chair: Dr. Debasis Dhal, Assam University, India

Paper ID 16. Thermoelectric Measurements of Silicon Nanowire Arrays for the Seebeck Effect

Neva Agarwala

Paper ID 90. A Connect-5 Structure based Parallel Assay Operations in a Restricted Sized Chip in Digital Microfluidics

Debasis Dhal, Arpan Chakrabarty, Piyali Datta, Sudipta Roy, Rajat Kumar Pal

Paper ID 146. Use of Silicon Nanoparticle for the Photocurrent Enhancement of Organic Solar Cell

Md. Shahinul Islam, Md. Enamul Karim, Hartmut Baerwolff, Abu Bakar Md. Ismail

Paper ID 186. Correction Factor Impact on Nearest Neighbour Hopping Parameter in Energy Dispersion Relation of Graphene Nanoribbon

Asif Hassan, Md.Sohel Rana

Paper ID 242. Extrinsic Performance of Flexible Graphene FET with Graphene Oxide Gate Dielectric

Mohi Uddin Jewel, Md.Rafiqul Islam

Paper ID 243. Quantum Capacitance Modeling of Graphene Nanoribbons in Nondegenerate Regime Considering Edge Bond Relaxation and Third Nearest Neighbor Interaction Effect

Asif Hassan, Md.Sohel Rana

Technical Session 2-2: Electronic and Optoelectronic Devices-II

Time: 11:00 AM – 12:30 PM

Venue: Room 6013, Level 6, Academic Block

Session Chair: Dr. K. M. A. Salam, North South University, Bangladesh

Paper ID 164. A Defected Core Highly Birefringent Dispersion Compensating Photonic Crystal Fiber

Md. Sharafat Ali, K.M. Nasim, Redwan Ahmad, M Samiul Habib, M A G Khan

Paper ID 166. A Slope Matched Microstructure Optical Fiber for Dispersion compensation Over S + C+ L Wavelength Bands

Redwan Ahmad, Md. Sharafat Ali, K M Nasim, M Samiul Habib

Paper ID 167. Analytical Modeling of Threshold Voltage of a Double Gate Junction Less Field Effect Transistor

Ayed Al Sayem, Yeasir Arafat, Md. Mushfiqur Rahman

Paper ID 181. Effect of High k-Dielectric as Gate Oxide on Short Channel Effects of Junction Less Transistor

Ayed Al Sayem, Yeasir Arafat, Md. Mushfiqur Rahman

Paper ID 184. Optimized Design and Performance Analysis of n+p Doped GaAs-Based Solar Cell

Nusrat Alim, Fazle Rabbi Himel, Syed Tauhidun Nabi, Md. Shabbir Hossain Khan, Rinku Basak

Paper ID 216. Guiding Surface Plasmon Polariton Along 90 Degree Bend MDM Waveguide Models

Asif Al Noor, Md. Thesun Al-Amin, Rakibul Hasan Sagor, Md. Ghulam Saber

Paper ID 227. Resolution Limit of Subwavelength Optical Imaging Through Au-SiO₂-Au Nanorod Arrays

Md. Ibrahim Khalil, Saad Bin Alam, Atiqur Rahman

Paper ID 230. Investigation of Surface Plasmonic Bragg-Grating Based IMI waveguide

Md. Azmot Ullah Khan, Rakibul Hasan Sagor, Md. Hosne Mobarok Shamim, Faisal Mahmud Fuad

Lunch Break

Time: 12:30 PM - 2:00 PM, Venue: IUB Cafeteria, Library Building, Ground Floor

Invited Paper 1

Time: 2:00 PM – 2:35 PM

Venue: Lecture Gallery 5002, Level 5, Academic Block

Session Chair: Prof. Shuichi Takamura, Aichi Institute of Technology, Japan

Title: Power System Deregulation – Indian Experience

Speaker:

Prof. Tirthadip Ghose

Birla Institute of Technology, India

Technical Session 3-1: Digital Systems-I

Time: 2:35 PM – 3:45 PM

Venue: Room 6009, Level 6, Academic Block

Session Chair: Dr. Afzal Hossain, Nanova Corporation, USA

Paper ID 2. Development of a Graphical User Interface using Windows7-C# to Download Intel-Hex Formatted File into the Flash of 89S52 Microcontroller

Golam Mostafa, Yeasin Abedin

Paper ID 23. Negabinary signed-digit adder: all-optical polarization-encoded design

Abdallah Cherri, Nabil Khachab, Ali Hajjiah

Paper ID 54. Development of a 16-Bit Microprocessor Learning System using Intel 8086 Architecture

Golam Mostafa

Paper ID 56. Development of an 8-Bit RISC Microcontroller Learning Kit using Atmel ATmega32 Architecture

Golam Mostafa

Paper ID 67. FPGA Implementation of a Fetal Heart Rate Measuring System

Indranil Hatai, Indrajit Chakrabarti, Swapna Banerjee

Technical Session 3-2: Wireless Sensing Devices and Systems-I

Time: 2:35 PM – 3:45 PM

Venue: Room 6013, Level 6, Academic Block

Session Chair: Dr. A. K. M. Muzahidul Islam, MJJIT, Universiti Teknologi Malaysia

Paper ID 45. PCM Based Audio Signal Security System

Avijit Hira, Nazmus Sakib, Nayan Sarker

Paper ID 72. Wireless Communication through Long Term Evaluation (LTE) over Satellite Channel by using MIMO-OFDM Model

Md. Mahmudul Hasan, Saleh Mohammad Sagar

Paper ID 88. A Scheduling Method for Multiple Target Coverage to Prolong Lifetime of Wireless Sensor Networks

S. M. Kawser Amir, Ilmu Tani, Md. Sharif Sarwar, Kazi Salam, Hafiz Rahman

Paper ID 133. Spectrum Aware Cluster-Based Architecture for Cognitive Radio Ad-Hoc Networks

Nafees Mansoor, A. K. M. Muzahidul Islam, Mahdi Zareei, Sabariah Baharun, Shozo Komaki

Tea Break

Time: 3:45 PM - 4:00 PM, Venue: Level 5 Lobby, Academic Block

Technical Session 4-1: Power Electronics & Smart Grid

Time: 4:00 PM – 5:00 PM

Venue: Room 6009, Level 6, Academic Block

Session Chair: Dr. Khosru M. Salim, Independent University, Bangladesh

Paper ID 74. Design and Analysis of the Reduction of Harmonics at Single Phase Inverter Output

Md. Zakaria Habib, Jobair Ibna Abdul Ali, Imrul Hasan Khan, Mohammad Jahangir Alam

Paper ID 112. Design Implementation and Testing of a Three Phase BLDC Motor Controller

Rubayet Hosen, Khosru M. Salim

Paper ID 138. Modeling of PV Module with Incremental Conductance MPPT Controlled Buck-Boost Converter

Mahamudul Hasan, Monirul Islam, Shameem Ahmad, Juel Rana

Paper ID 150. Design and implementation of Digital Energy Meter with data sending capability using GSM network

Sarwar Shaidi, Md. Abdul Gaffar, Khosru M. Salim

Paper ID 241. A Novel Smart Metering System for Loss Reduction and Efficient Load Management in the Power Distribution Sector of Bangladesh

G. M. A. Ehsan ur Rahman, Khawza Ahmed, Raqibul Mostafa, Md. Fayyaz Khan

Technical Session 4-2: Power Systems

Time: 4:00 PM – 5:00 PM

Venue: Room 6013, Level 6, Academic Block

Session Chair: Dr. Mohammad Abdul Mannan, American International University, Bangladesh

Paper ID 4. In Quest of Experimental Support for the Increased Real and Reactive Power in the Czarnecki Power Model under Nonsinusoidal Waveforms

Golam Mostafa

Paper ID 76. Study on Gas Based Captive Power Generation in Bangladesh

Md. Zubaer Eibna Halim, Md. Shamsul Alam, Kazi Khairul Islam

Paper ID 82. Comparison of MPC and conventional control methods for the stability enhancement of UPFC connected SMIB system

Md. Shoaib Shahriar, Md. Ashik Ahmed, M. Ishtiaque Rahman

Paper ID 104. Design and Simulation of Speed Control of an Induction motor Taking Core loss and Stray Load Losses Into Account

Rupak Kanti Dhar, Md. Ehtashamul Haque, Md. Alinavan Taia, Md. Ratan Sikdar, Mohammad Abdul Mannan

**Conference Dinner &
Dr. Fatema Rashid Best Paper Award Ceremony**

Date:

20 December 2013, Friday

Time:

6:00 PM-9:00 PM

Chief Guest:

Prof. M. Omar Rahman, Vice Chancellor, Independent University, Bangladesh

Special Guest:

Dr. Samir M. El-Ghazaly, Division Director – ECS, National Science Foundation, USA

Venue:

Restaurant Baton Rouge, Pink City (7th Floor), Plot-15, Road-103, Gulshan-2
Phone: 01724125457, Website: www.batonrouge-casagreek.com

Day 3

December 21, 2013

Technical Session 5-1: Digital Signal and Image Processing-II

Time: 9:00 AM – 10:30 PM

Venue: Room 6009, Level 6, Academic Block

Session Chair: Dr. Mahady Hasan, Independent University, Bangladesh

Paper ID 108. Preserving Rotation Invariant Properties in Differential Evolution Algorithm

Md. Tanvir Alam Anik, Abu Saleh Md Noman, Sabbir Ahmed

Paper ID 116. Furthest k Neighbors Queries in Spatial Databases

Mahady Hasan, Muhammad Aamir Cheema

Paper ID 177. Human Emotion Modeling Based on Salient Global Features of EEG Signal

Monira Islam, Tazrin Ahmed, Mohiuddin Ahmad

Paper ID 210. Detailed Regions Based Medical Image Contrast Enhancement

Md. Moniruzzaman, Md. Shafuzzaman, Md. Faisal Hossain

Paper ID 244. Comparison Between Time Domain and Frequency Domain Strain Estimation in Elastography

Md. Abu Aeioub Ansary, Rafiur Rahman Chowdhury, M. Raquib Ehsan, Md. Anisuzzaman, Haider Adnan Khan, Khawza Ahmed

Paper ID 262. New Color Image Enhancement Method for Endoscopic Images

Mohammad Shamim Imtiaz, Tareq Hasan Khan, Khan Wahid

Technical Session 5-2: Wireless Sensing Devices and Systems-II

Time: 9:00 AM – 10:30 AM

Venue: Room 6013, Level 6, Academic Block

Session Chair: Dr. Mohammad Monirujjaman Khan, University of Liberal Arts Bangladesh

Paper ID 137. Eliminating the effect of Fog Attenuation on FSO Link by Multiple TX/RX System with Travelling wave Semiconductor Optical Amplifier

Farhana Hossain, Zeenat Afroze

Paper ID 183. Dual wideband N Shaped Patch Antenna loaded with shorting pin for Wireless Applications

Md. Samsuzzaman, Mohammad Tariqul Islam, Rashed Iqbal Faruque

Paper ID 212. Bridging Digital Divide: 'Village Wireless LAN', A Low Cost Network Infrastructure Solution for Digital Communication, Information Dissemination & Education in Rural Bangladesh

Sayem Chaklader, Junaed Alam, Monirul Islam, Ali S Sabbir

Paper ID 214. The Effects of Cross-phase Modulation and Third Order Dispersion on Pulses and Pulse Broadening Factor in the WDM Transmission System

Nasrin Sultana, M.S. Islam

Paper ID 218. Performance Analysis of a Non-Coherent Differential Chaos-Shift Keying Technique

Md. Zahid Hasan

Paper ID 235. Design and Implementation of a GSM Based remote home security and appliance control system

G. M. Sultan Mahmud Rana, Abdullah Al Mamun Khan, Mohammad Nazmul Hoque, Abu Farzan Mitul

Paper ID 245. Feasibility Analysis of Wireless Underground Sensor Networks for Agro-Ecological Zones of Bangladesh

S. M. Rakiul Islam, Md. Alimul Ahsan

Tea Break

Time: 10:30 AM - 11:00 AM, Venue: Level 5 Lobby, Academic Block

Technical Session 6-1: RF & Microwave Devices

Time: 11:00 AM – 12:30 AM

Venue: Room 6009, Level 6, Academic Block

Session Chair: Dr. Mohammad Rashed Iqbal Faruque, Universiti Kebangsaan Malaysia

Paper ID 94. Design of a Narrowband 2.45 GHz Unidirectional Microstrip Antenna with a Reversed 'Arrow' Shaped Slot for Fixed RFID Tag and Reader

Saad Bin Alam, Mohammad Sakib Ullah

Paper ID 103. Ultra-wideband Microstrip Patch Antenna Design and Performance Analysis for RFID applications at ISM band (2.45 GHz)

Md. Ashikur Rahman, Asif Shaik, Ibnul Sanjid Iqbal, Asif Hassan

Paper ID 153. Design and Performance Analysis of a Dual Band Parabolic Reflector Antenna with Waveguide Dipole Feed and Link Budget Optimization

Md. Tofael Hossain Khan Shovon, Anindya Kumar Kundu Anu, Md. Osman Goni Arik, Wahida Sharmin Orin, Kazi Abul Barkat Imran

Paper ID 165. Design of an X-band Microstrip Antenna with Enhanced Bandwidth

Md Moinul Islam, Mohammad Rashed Iqbal Faruque

Paper ID 254. On-Body Radio Channel Performance of a Small Printed Quasi-Self-Complementary Ultra Wideband Antenna

Mohammad Monirujjaman, Md Azizur Rahman, Akram Alomainy, Clive Parini

Paper ID 256. Ultra Wideband On-Body Radio Propagation Channels for Different Real Human Test Subjects with Various Sizes and Shapes

Mohammad Monirujjaman, Md Azizur Rahman, Akram Alomainy, Clive Parini

Technical Session 6-2: Digital Systems-II

Time: 11:00 AM – 12:30 PM

Venue: Room 6013, Level 6, Academic Block

Session Chair: Dr. Abdallah K. Cherri, Kuwait University, Kuwait

Paper ID 117. On-Chip Static vs. Dynamic Routing for Feed Forward Neural Networks on Multicore Neuromorphic Architectures

Raqibul Hasan, Tarek Taha

Paper ID 215. Design of Low Power Pulsed Flip-Flop Using Sleep Transistor Scheme

Mareswara Rao Gangula, Rajendar Sandiri

Paper ID 246. A Direct Noninvasive Brain Interface with Computer Based on Steady-State Visual-Evoked Potential with High Transfer Rates

Md. Kamrul Hasan, Rushdi Zahid Rusho, Mohiuddin Ahmad

Paper ID 260. Design and Implementation of Touchscreen and Remote Control Based Home Automation System

Nazmul Hasan, Abdullah Al Mamun Khan, Nezam Uddin, Farzan Mitul Abu

Lunch Break

Time: 12:30 PM - 1:45 PM, Venue: IUB Cafeteria, Library Building, Ground Floor

Invited Paper 2

Time: 1:45 PM – 2:20 PM

Venue: Lecture Gallery 5002, Level 5, Academic Block

Session Chair: Dr. Shahriar Khan, Independent University, Bangladesh

Title: Smart Materials for Chipless RFID Sensors: Revolution in Identification and Sensing in the New Millennium

Speaker:

Dr. Nemai Chandra Karmakar

Monash University, Australia

Technical Session 7-1: Fuzzy Systems & Neural Networks

Time: 2:30 PM – 3:15 PM

Venue: Room 6009, Level 6, Academic Block

Session Chair: Dr. Mahbub Murshed, Independent University, Bangladesh

Paper ID 77. Implementing Artificially Intelligent Ghosts to Play MS. Pac-Man Game by Using Neural Network at Social Media Platform

Md Mahmudul Hasan, Jeet Z.H. Khondker

Paper ID 84. Speckle Noise Reduction From Ultrasound Image Using Modified Binning Method and Fuzzy Inference System

Md. Aminul Islam, Mehedi Hasan Talukder, Md. Mosaddik Hasan

Paper ID 226. A Real Time Numeric Character Recognition System Using Artificial Neural Network

M. M. Farhad, S. M. Nafiulm Hossain, Md. Imtiaz Hossain, Ripon Shaha Mishu, Shamim Shahriar Hossain, Md. Fakrul Alam Khan

Technical Session 7-2: Renewable Energy

Time: 2:30 PM – 3:15 PM

Venue: Room 6013, Level 6, Academic Block

Session Chair: Dr. Khosru M. Salim, Independent University, Bangladesh

Paper ID 52. Hybrid Power Generation to Meet the Increasing Demand of Energy for an Island of Bangladesh

Faisal Matin, Md. Adib Ibne Yusuf, Rosi Ranan, A. R. M. Siddique

Paper ID 53. Proposal for Introduction of Ocean Thermal Energy Conversion (OTEC) to the Energy Sector of Bangladesh

Shifur Shakil, Md. Anamul Hoque

Paper ID 62. Impact of the Proposed Tidal Power Generation on the Reduction of Acute Load Shedding of Bangladesh Power System and its Financial Viability Analysis

Mohammad Tawhidul Alam, Md. Tanvir Hasan, Md. Sadbir Hossain, Md. Tanvir Ahad, Sharmin Sultana Sathi, H. M. Mithun

Paper ID 209. Experiment for Producing a Renewable Alternative Fuel for Bangladesh from Mustard Oil

A. S. M. Monjurul Hasan, Mohammad Samir Ahmed, A. S. M. Muhaiminul Hasan

Technical Session 8-1: VLSI Design & Fabrication

Time: 3:15 PM – 4:15 PM

Venue: Room 6009, Level 6, Academic Block

Session Chair: Prof. Gautam Mukhopadhyay, Indian Institute of Technology Bombay

Paper ID 18. Gate Leakage in Hafnium Oxide High-k Metal Gate nMOSFETs

Ashutosh Rao, Gautam Mukhopadhyay

Paper ID 59. Fabrication of Integration-Capable Surface-Relief VCSEL Arrays for Miniaturized Optical Manipulation of Microparticles

Niazul Islam Khan, Anna Bergmann, Rainer Michalzik

Paper ID 101. Fabrication of uniform-macroporous silicon and its possible application in hybrid solar cell

A. T. M. Saiful Islam, Abu Bakar Md. Ismail

Technical Session 8-2: Pattern Recognition and Tracking

Time: 3:15 PM – 4:15 PM

Venue: Room 6013, Level 6, Academic Block

Session Chair: Dr. Supratip Ghose, University of Technology and Sciences, Bangladesh

Paper ID 86. Recognition of English Vowels in Isolated Speech using Characteristics of Bengali Accent

Tanjin Taher Toma, Abu Hasnat Md. Rubaiyat, A.H.M Asadul Huq

Paper ID 180. Window Based Clothing Invariant Gait Recognition
Md. Shariful Islam, Md. Rabiul Islam, Most. Sheuli Akter Sheuli, M. A. Hossain
Altab, M. K. I. Molla Khademul

Paper ID 182. A systematic approach with Data Mining for analyzing physical activity for an Activity Recognition System
Supratip Ghose, Jagat Joyti Barua

Poster Session

20 December, 2013

Time: 11:00 AM – 12:30 AM

Venue: Frames Gallery, Level 5, Academic Block

Session Chair: Dr. Feroz Ahmed, Independent University, Bangladesh

Paper ID 140. A Double-ridged Horn Antenna Design in Canola Oil for Medical Imaging

Saeed Latif, Stephen Pistorius, Lotfollah Shafai

Paper ID 253. Efficient Face Recognition Using Shifted Phase-encoded Fringe-adjusted Joint Transform Correlator

Sidike Paheding, Mohammad Alam, Chen Cui, Vijayan Asari

Paper ID 261. Fault Modeling and Mapping For Quantum-dot Cellular Automata (QCA) Designs

Shabab F. Alam, Waleed K. Al-Assad, Pragadesh Varadharajan

Reception & Closing Ceremony

Time: 4:30 PM - 5:00 PM, Venue: Lecture Gallery 5002, Academic Block

Refreshments

Time: 5:00 PM - 5:30 PM, Venue: Level 5 Lobby, Academic Block

Presentation Timing Details

Contributed papers:

Presentation 10 mins

Q & A 2 mins

Keynote & Invited papers:

Presentation 30 mins

Q & A 5 mins

Location Map of IUB and Baton Rouge (Conference Dinner Venue)

