

TECHNICAL SESSIONS of IEMENTech 2017

CONTRIBUTORY PAPERS

28.04.2017 (DAY 1)

TIME & HALL	Session Code & Name	Paper ID	Paper Title	Paper Author(s)	Session Chair	
12.15 PM to 01.30 PM Sir Jagadish Chandra Bose Hall (2)	A	Microwave and Antenna (5)	1A-01	#1570346139: Port Isolation Enhancement of a Dual Polarized Rectangular Dielectric Resonator Antenna	G. A. Sarkar, B. Rana, S. Kr. Parui, S. E. Rahaman	Dr. Sayan Chatterjee, JU
			1A-03	#1570345756: Design of Half Mode Substrate Integrated Waveguide (HMSIW) Filter with Series Defective Microstrip Structure (DMS) for Ku band Operation	N. Laya, A. Poddar, A. Mandal, K. Shivam, J. Kota, R. Dey, S. Moitra	
			1A-02	#1570353005: Development of Novel Engineered Metamaterial: Structure, Extraction of Various Parameters and Applications	S. K. Ghosh, S. Kr. Parui, A. Chatterjee	
			1A-04	#1570352545: Complementary Inverted Reactive Slot Antenna Embedded in Single Layer Substrate Integrated Waveguide (SIW)	M. Singha Roy, S. Moitra	
			1A-05	#1570346028: A Direct Microstrip Line Feed Hemispherical Dielectric Resonator Antenna Array	Goffar Ali Sarkar, Biswarup Rana, Susanta Kumar Parui	
12.15 PM to 01.30 PM Acharya Sir Prafulla Chandra Rây Hall (3)	B	Materials Engineering & Nano-Technology (5)	1B-01	#1570346000: Modeling and Simulation of Ion-Sensitive Field-Effect Transistor using TCAD Methodology	Neel Choksi, Dewanshu Sewake, Soumendu Sinha, Ravindra Mukhiya, Rishi Sharma	Dr. Prashanta Karmakar, VECC
			1B-02	#1570353805: Preparation and investigation of nano-enhanced PCM for thermal energy storage	R.K. Sharma, P. Ganesan	
			1B-03	#1570352366: V ₂ O ₅ -MoO ₃ -ZnO Thick Film Resistors as Highly Selective Trace Level Ethanol Gas Sensors	Anindya Sundar Das, Madhab Roy, D. R. Patil, Koyel Bhattacharya, Debasish Roy, Sanjib Bhattacharya	
			1B-04	#1570353436: Analysis of Nucleation and Growth Parameter of Silver Nanoparticles for sensors	Prakash.V, Jayant Pawar, Ashish Kumar Patel, Rabinder Henry, Amit Patwardhan	
			1B-05	#1570344327: Balancing Security & Sharing of Fitness Trackers' Data	Renata Saha, Sayan Sarkar, Soumya Kanti Datta	
3.00 PM to 4.00 PM Satyendra Nath Bose Hall (1)	C	Micro-Electronic Device Fabrication (4)	1C-01	#1570351706: High Gain Low Power Low Noise Trans-impedance Amplifier for Current Sensing Application	Kumar Rajiv Ranjan, Rajendra Prasad	Dr. Masahiro Fujita, The University of Tokyo, Japan
			1C-02	#1570352524: Realization of Single and Double Cole Tissue Models using Higher Order Approximation	Ravi Kumar, Subrahmanyam Perumalla, John Vista, Ashish Ranjan	
			1C-03	#1570353872: Fully Integrated Sub-Threshold Body biased low noise portable ECG frontend	Priyanka Giri, Ganesh Lakshmana Kumar M	
			1C-04	#1570354031: CMOS Temperature Sensor Using A Current Starved Ring Oscillator For Low Power And Low Leakage IOT Applications	Arindam Das, Rajendra Prasad, Mohita, Arijoy Mondal, Kumar Rajiv Ranjan	
4.00 PM to 5.00 PM Satyendra Nath Bose Hall (1)	D	VLSI Circuit Design (4)	1D-01	#1570354215: Low Power High Speed Frequency Divider for Frequency Synthesizers in 180nm CMOS Technology	Antardipan Pal, Posiba Mostafa, Moumita Das, Sayan Chatterjee	Dr. Masahiro Fujita, The University of Tokyo, Japan
			1D-02	#: Implementation of Standard Functions Using Universal Gate in QCA Designer	Ratna Chakrabarty, Ankita Bhattacharjee, Arpita Kundu, Rajiv Ganguly	
			1D-03	#1570355763: Design of 1-bit Full Adder using β -Driven Threshold Logic paper title	Madhusmita Paul, Neha Kapoor, Rohini Modak, Tathagata Paul, Subhajit Dutta Chowdhury, Mili Sarkar	
			1D-04	#1570354419: Irrigation Management System with micro-Controller Application	Prateek Jain, Prakash Kumar, D.K. Palwalia	

3.00 PM to 4.00 PM Sir Jagadish Chandra Bose Hall (2)	E	Nano-Materials & Opto-Electronics (4)	1E-01	#1570346750: Effect of Surface-to-Volume Ratio on Eigenenergy in Quantum Disk in presence of Magnetic Field	Swapan Bhattacharyya, Sourish Haldar, Arpan Deyasi	Dr. Partha Bhattacharyya, IEST
			1E-02	#1570353587: Design of all-optical T-gate and Quaternary subtractor circuit	Sumana Mandal, Mrinal Kanti Mandal, Dhoumendra Mandal, Sisir Kumar Garai	
			1E-03	#1570354411: Theoretical analysis of fiber loop ringdown spectroscopy for gas sensing	Aparajeeta Guha, Tarun Kumar Gangopadhyay	
			1E-04	#1570352501: Wet-chemical Synthesis and Optical Properties of CuO Nanoparticles	P. K. Samanta, A. K. Mandal, S.Mishra, A. Saha	
4.00 PM to 5.00 PM Sir Jagadish Chandra Bose Hall (2)	F	Nano-Materials & Opto-Electronics (4)	1F-01	#1570351619: Wavelength Dependence of Impedance and Quality Factor for MIM Surface Plasmon Structure	Pratibha Verma, Pratiti Paul, Arpan Deyasi	Dr. Sanatan Chattopadhyay, CU
			1F-02	#1570352402: Novel JAVA-GUI based Package for Optimized Performance Analysis of 1D PhC based Filter	Rahul Mukherjee, Pritam Dutta, Dibyaduti Gorai, Soumen Santra, Arpan Deyasi	
			1F-03	#1570353596: Design of all-optical one bit binary comparator using reversible logic gates	Dhoumendra Mandal, Sumana Mandal, Mrinal Kanti Mandal, Sisir Kumar Garai	
			1F-04	#1570348037: Generating Dark Solution inside Fiber Bragg Grating Structure for Hermite-Gaussian Input Wave	Payel Halder, Arpan Deyasi	
3.00 PM to 4.00 PM Acharya Sir Prafulla Chandra Rây Hall (3)	G	Green Technology & Bioelectronics and its Application (4)	1G-01	#1570351845: Wind Power Grid Interfacing using 3 Level vs 5 Level Inverter with SEPIC Converter	Rajat Kumar, Navdeep Singh	Dr. Rajiv Ganguly, UEM
			1G-02	#1570353919: A Review on Smart Grid Initiatives and Power Structure in India	Gyanendra Singh, A. N. Tiwari	
			1G-03	#1570353964: Optimization of a Smart Grid Distributed Generation: Designing of a Hybrid Solar System for a Building	Gyanendra Singh, A. N. Tiwari	
			1G-04	#1570355069: Design of Low cost Apnea Detector by Modifying a Simple Pulse Delay Circuit Interfacing with Computer with audio input by freely available audio Software	Tarak Das, Pratik Das, Tapas Kr. Dawn, Piyali Basak	
4.00 PM to 5.00 PM Acharya Sir Prafulla Chandra Rây Hall (3)	H	Industrial Electronics & Control Systems (4)	1H-01	#1570353713: Intelligent Computing Based Converter Fault Identification in Line Commutated High Voltage Direct Current Transmission Line	Shobha Agarwal, Aleena Swetapadma, Chinmoy Panigrahi, Abhijit Dasgupta	Dr. Rajiv Ganguly, UEM
			1H-02	#1570353897: A Comparative study of different multilevel inverters	Gautam Ghosh, Suman Sarkar, Shamik Mukherjee, Tiyasa Pal, Sabyasachi Sen	
			1H-03	#1570353942: Dimension Reduction and Controller Design for Large Scale Systems Using Balanced Truncation	Manoj Kumar Maurya, Awadhesh Kumar	
			1H-04	#1570355364: Approximation to an Unstable, MIMO Waste Water Treatment Plant	Shashi Kant Chaudhary, Awadhesh Kumar	

5.30 PM to 6.30 PM Satyendra Nath Bose Hall (1)	I	Semiconductor Device Physics (4)	1I-01	#1570350648: Structural Analysis of 1.1kV 4H-SiC Power DMOSFETs and it's Susceptibility to high Temperature	Prabhupada Samal, Veera Venkata Subrahmanya, Kumar Bhajana, S. K. Mohapatra	Dr. Mallar Ray, IEST
			1I-02	#1570351756: Performance Enhancement in Al _{0.3} Ga _{0.7} N/GaN HEMT based inverter using MOSHEMT	Soumya Prava Nayak, Pradipta Dutta, S. K. Mohapatra	
			1I-03	#1570353377: Quantitative Equivalent Circuit Modeling of ZnO Nanorod based MIS Vapor Sensor Device	Koushik Dutta, Aman Kumar Saini, Rajarshi Roychaudhuri, Partha Bhattacharyya	
			1I-04	#: Gold Nanoparticle Patterning on Titanium Dioxide Thin Films by Hydrophilic and Hydrophobic Interactions: Effect on Band Gap	Smita Mukherjee, Madhumita Choudhuri, Alokmay Datta, Konstantin Koshmak, Stefano Nannarone, Anoop Kr. Mukhopadhyay	
5.30 PM to 6.30 PM Sir Jagadish Chandra Bose Hall (2)	J	Semiconductor Device Physics & Industrial Electronics & Mixed Signal Circuits (4)	1J-01	#1570355760: MPPT Based High Gain Converter	Amritendu S, Arun S	Dr. Abir Chatterjee, UEM
			1J-02	#1570355617: Nano-Calculator Using Quantum Dot Cellular Automata (QCA)	R. Chakrabarty, S. Dutta, M. R. Malakar, S. S. Roy, P. Mukherjee, Rajiv Ganguly	
			1J-03	#1570354253: An improved TIQ Comparator based 3-bit Flash ADC	Jagritee Talukdar, Basab Das	
			1J-04	#1570353760: Design of High Performance 8 bit Binary Multiplier using Vedic Multiplication Algorithm with 16nm technology	Koyel Dey, Sudipta Chattopadhyay	
5.30 PM to 6.30 PM Acharya Sir Prafulla Chandra Ray Hall (3)	K	Signal & Image Processing (4)	1K-01	#1570345382: A meticulous implementation of RSA Algorithm using MATLAB for Image Encryption	Shankha Mukherjee, Shakya Chakrabarti, Souvik Sinha, Tamal Mukhopadhyay	Dr. Angshuman Sarkar, Kalyani Government Engineering College
			1K-02	#1570351876: An Intelligent Method for Classification of Normal and Aggressive Actions from Electromyography Signals	Gopal Chandra Jana, Aleena Swetapadma, Prasant Pattnaik	
			1K-03	#1570352822: Steganography using Wavelets with Statistical Performance Analysis	Rajat Modi, Naman Garg, Harish Parthasarathy	
			1K-04	#1570352823: Detection and Classification of Breast Cancer from Digital Mammograms using RF and RF-ELM Algorithm	R. D. Ghongade, D. G. Wakde	
POSTER SESSION 5.00PM–5.30 PM (10)			EDAS ID	1570352757, 1570345818, 1570353253, 1570355367, 1570352072, 1570352527, 1570352701, 1570348225, 1570353953, 1570353621		

TIME & HALL	Session Code & Name	Paper ID	Paper Title	Paper Author(s)	Session Chair	
11.30 AM to 01.30 PM Sir Jagadish Chandra Bose Hall (2)	A	Microwave and Antenna (8)	2A-01	#1570355970: A Compact RF Chain for Transmit Module at Ku Band for SATCOM Application	Shyam Kumar Agrawal, Monika Khaira, Khushboo Kumari, R.C. Yadav	Dr. Manojit Mitra, IEST
			2A-02	#1570345922: CPW-Fed Small UWB Monopole Antenna for Energy-Harvesting Applications	Archan Jash, Amartya Banerjee, Sayan Chatterjee	
			2A-03	#1570354371: I-shaped Dual-resonant Gigahertz Antenna for Radiolocation and Military applications	V. Mehta, A. Kaur, P. Mehmi, S. Vasudev, E. Sidhu	
			2A-04	#1570354394: Rectangular TeraHertz Microstrip Patch Antenna design for Vitamin K2 detection applications	P. Mehmi, G. Kaur, V. Mehta, E. Sidhu	
			2A-05	#1570355935: Bandwidth Enhancement of a Microstrip Patch Antenna Using Cuckoo Search Optimization	A. Mukhopadhyay, S. Lahiri, S. Sen, S. Chakraborty, S. Mitra, S. Banerjee, M. Gangopadhyaya	
			2A-06	#1570352573: Bandpass Filter (BPF) Design using Waveguide Iris Conformation over Substrate Integrated Waveguide (SIW) Bend	S. Moitra et. al.	
			2A-07	#1570354369: Fault Detection in Direct Current Transmission Lines Using Discrete Fourier Transform from Single Terminal Current Signals	S. Agarwal, A. Swetapadma, C. Panigrahi, A. Dasgupta	
			2A-08	#1570353616: TEM Analysis of Microheater Using SiO ₂ /Si ₃ N ₄ Composite Membrane For Long Term Gas Sensing Applications	Paramita Chowdhury, Sunipa Roy	
11.30 AM to 01.30 PM Acharya Sir Prafulla Chandra Rây Hall (3)	B	Signal & Image Processing & Embedded System & Artificial Intelligence (8)	2B-01	#1570352764: Smart Transaction and Automation System for Banks	M. Roy, Md. Minhazuddin, S. Ghosh, K. Sarkar, T. K. Rana	Dr. Amlan Chakrabarti, CU
			2B-02	#1570353838: Pediatric Seizure Prediction From EEG Signals Based on Unsupervised Learning Techniques Using Various Distance Measures	S. Chakrabarti, A. Swetapadma, P. K. Pattnaik, Tina Samajdar	
			2B-03	#1570354070: Early detection of diabetes based on Skin impedance Spectrogram and heart rate variability noninvasively	Tarak Das, Sayanti Guha, Arijit Ghosh, Piyali Basak	
			2B-04	#1570354402: Automatic Mixed Pixel Detection using a new Hybrid Cellular Automata Approach on Satellite Image	Kalyan Mahata, Rajib Das, Subhasish Das, Anasua Sarkar	
			2B-05	#1570354438: Performance Analysis and Implementation method of VMF and EVMF for Removing of Impulse Noise on FPGA	Md Ismaeil, Kh. Jilen Kumari Devi, K. Pritamdas, S. Goyal	
			2B-06	#1570352001: Non-dominated Sorting Genetic Algorithm – II supported Neural Network in Classifying Forest Types	S. Chatterjee, S. Banerjee, K. G. Mazumdar, S. Bose, S. Sen	
			2B-07	#1570355471: Convolutional Neural Network based Face detection	S. Mukherjee, A. Das, S. Saha, A. K. Bhunia, S. Lahiri, A. Konwer, A. Chakraborty	
			2B-08	#1570353839: Obstacle Avoidance For UAVs used in Road Accident Monitoring	Nithya S. B, Vipin R. C, Raj M.	
02.30 PM to 04.00 PM Sir Jagadish Chandra Bose Hall (2)	C	Wireless/Mobile Communication & Computing (6)	2C-01	#1570355625: Design and development of a wireless sensor network for the study of thermal instability of the Earth surface as a probable precursor of earthquake	Suman Kumar Guha, Tapas Kumar Bhaumik	Dr. Madhumita Das Sarkar, MAKAUT
			2C-02	#1570341549: An Efficient Algorithm for Coverage Hole Detection and Healing in Wireless Sensor Networks	A. Soundarya, V.Santhi	
			2C-03	#1570352511: Performance Analysis of Spectrum Sensing in Cognitive Radio at Low SNR Environment	S. Chatterjee, S. Ray, S. Dutta, J. S. Roy	
			2C-04	#1570354323: Modified Ant-AODV-VANET Routing Protocol for Vehicular Adhoc Network	Atreyee Datta	
			2C-05	#: Secondary User Capacity Maximization in CR under Nakagami-m Fading Channel with Receiver Diversity	C. Rai, S. Debnath, S. Baishya, W. Arif	
			2C-06	#1570354398: Performance analysis and optimization schemes for cooperative spectrum sensing and information fusion for cognitive radio : A Survey	Charu Bhatnagar, Anjali Potnis, Prshant Dwivedy, Sunil Kumar Meena	

02.30 PM to 04.00 PM Acharya Sir Prafulla Chandra Rây Hall (3)	D	Robotics and Artificial Intelligence & Mechatronics (6)	2D-01	#1570345317: Task Space Stiffness Analysis of Wire Driven Parallel Manipulator	Pratibha Vishnu Shinde, Soumen Sen, Sankar Nath Shome	Dr. Amit Konar, JU
			2D-02	#1570357024: Lawn Mower Trajectory Tracking By Wheeled Mobile Robot: Its Consequences	Bibekananda Patra, Sambhunath Nandy	
			2D-03	#1570353443: Naturalistic Gestures Based Human Robot Interaction On a UGV for Outdoor Use	Syam Gopi, Alexander Muir, Rao R Bhavani	
			2D-04	#1570354112: Identification of an Effective Learning Approach to Landmine Detection	Nitin Ajithkumar, Aswathi P, Rao. R Bhavani	
			2D-05	#1570354258: Design, development and locomotion control of compliant soft mobile robot	Ranjith Pillai R., Saffron Anas, Aaquib Ali, Omar Jameel	
			2D-06	#1570352164: Cuckoo Search coupled Artificial Neural Network in Detection of Chronic Kidney Disease	Sankhadeep Chatterjee, Soumen Banerjee, P. Basu, Mainak Debnath, Soumya Sen	
05.15 PM to 06.00 PM Sir Jagadish Chandra Bose Hall (2)	E	Materials Engineering & Nano- Technology (4)	2E-01	#1570354170: Design Study of a Portable Permanent Magnet ECR Plasma Source for Thin Film Deposition	Soumik Kumar Kundu, Samit Karmakar, Shamik Mukherjee, G. S. Taki	Dr. Kalyan Kumar Chatterjee, JU
			2E-02	#1570351249: Conceptual Design of a Double Antenna fed ECR Plasma Enhanced Nano-Film Deposition System	Samit Karmakar, Shamik Mukherjee, Soumik Kumar Kundu, Deepantee Jha, G.S.Taki	
			2E-03	#1570346554: Analytical Computation of Transconductance Characteristics of Single Electron Transistor	Arpan Deyasi, Ritabrata Chakraborty	
			2E-04	#1570354433: Impact on Gate Oxide material of Inverted 'T' Junctionless FinFET at 22 nm Technology node	B. Vandana, J. K. Das, S. K. Mohapatra, M. Sumathi Jyothi	
05.15 PM to 06.00 PM Acharya Sir Prafulla Chandra Rây Hall (3)	F	Special Video/PPT Session (4)	2F-01	#1570354288: Formal Modeling of Smart Logistics Monitoring	Saima Saddiq, Farhan Ullah, Nazir Ahmad Zafar	Prof. Ratna Chakraborty, Prof. Mili Sarkar, IEM
			2F-02	#1570353570: Formal Modeling of Smart Home Monitoring System	Shabina Farooq, Nazir Ahmad Zafar, Farhan Ullah	
			2F-03	#1570354395: Implementation of Cognitive Network: Channel Sensing and Allocation	Priya Tarte, Seema Hanchate	
			2F-04	#1570354450: Review and Application of Different Contrast Enhancement Technique on Various Images	Sunil Kumar Meena, Anjali Potnis, Madhuram Mishra, Prashant Dwivedy, Shahbaz Soofi	
05.15 PM to 06.00 PM Satyendra Nath Bose Hall (1)	G	Young Scientist Paper Session (2)	2G-01	#1570353477: Thermoelectric property of Si Nanoparticle- Polyaniline composites	Sayak Dutta Gupta, J.B.M. Krishna, Mallar Ray	Dr. G. S. Taki, Dr. Biswajit Saha, IEM
			2G-02	#1570353512: Resonant Frequency of an Inhomogeneous Rectangular Microstrip Antenna	Sudipta Maity, Malay Gangopadhyaya, Bhaskar Gupta	
POSTER SESSION 11.00 AM – 11.30 AM (10)			EDAS ID	1570355865, 1570352329, 1570354445, 1570354481, 1570355234, 1570353809, 1570352950, 1570350510, 1570354413, 1570353957		