

IEMENTech 2018

Technical Session

DAY 1 (04.05.2018)

Time	Session Chair	Venue	Topic	Paper I.D.	Paper Title	Paper Authors
02:30 PM - 03:30 PM	Dr.Subhashis Chowdhury, IEM (SessionChair) Coordinator: P.S. Paul	Science Hall	Ind.Electr. & Contr. Syst.	1570434812	Anti-windup FOPI Controller for Step Motor	Rimi Paul
				1570445126	Solid State Transformer for Electrical System: Challenges and Solution	Neevatika Verma
				1570445298	Voltage quality Compensation of DFIG With Series DVR (SDVR) Under three phase fault	Pooja Upadh
				1570445608	Reactive Power Compensation of Solid State Transformer for WECS	Neevatika Verma
				1570445825	Analysis of Switching Topology for Advanced Isolated Bi-Directional DC-DC Converter	Mohammad Alam
	Dr.Malay Gangopadhyay, IEM (Session Chair) Coordinator: S K Bishnu	Hall 1 (Seminar Hall 1)	Microwave and Antenna	1570447132	Wearable DGS Integrated high Performance Compact Antenna for 2.4 /5.2/5.8 GHz WLAN Band on Leather Substrate	Surajit Batabyal
				1570447158	Miniaturization of Rectangular Microstrip Antenna at WiMAX Band with Slot in Patch and Ground Surface A Comparative Analysis	Srijita Chakraborty
				1570447163	Control of Higher Order modes and their Radiation in Microstrip Antenna using Extremely Compact Defected Ground Structure & symmetric stub	Srijita Chakraborty
	Dr.Sayan Chatterjee, JU (Session Chair) Coordinator: Murari Shaw	Hall 2 (Seminar Hall 2)	Microwave and Antenna	1570445080	Design of Substrate Integrated Waveguide (SIW) BPF using Circular Ring, Split Ring and Inductive Posts	Sourav Moitra
				1570445395	Design and Simulation of 8-cavity hole-slot type magnetron in CST	Salma Khatoon
				1570445488	Design and analysis of Frequency Selective Surface Integrated Circular Disc Antenna	Priyanka Da
	Dr.Himadri Nath Saha, IEM (Session Chair) Coordinator: Debadyoti Ghosh	Hall 3	Signals and Image processing	1570432046	PPG Based Heart Rate Algorithm Improvement with Butterworth IIR Filter And Savitzky-Golay FIR Filter	Ayan Chatterjee
				1570445388	Lesion Segmentation Using Entropy Based Membership	Ananya Bose

				1570445512	Automatic Evaluation and Predictive Analysis of Optic Nerve Head for the Detection of Glaucoma	Rishav Mukherjee
				1570445628	Single Image Visibility Restoration using Dark Channel Prior and Fuzzy Logic	Subhadeep Koley
Time	Session Chair	Venue	Topic	Paper I.D.	Paper Title	Paper Authors
03:30 PM – 04:30 PM	Dr.G. S. Taki, IEM (Session Chair) Coordinator: Sutapa Roy	Science Hall	Nano Materials	1570446820	Study of variation in thickness of poly(n-vinylcarbazole) [PVK] thin films in different solvents for static dispense spin coating method	Mohit Sharma
				1570447173	Effect of Silica Nanofiller Concentration on Dielectric Properties of Transformer Oil	Priyanka Thakore
				1570447174	Dielectric Properties of Alumina based Epoxy Composites for Electrical Insulation	Apoorva Parmar
				1570446094	Simulation of carbon nanotube-polymer based piezo-resistive flexible pressure sensor for ultra-sensitive electronic-skin	Roopa Hegde
	Dr.M. Fujita, Univ. of Tokyo (Session Chair) Coordinator: Gouri Prasad	Hall 1 (Seminar Hall 1)	VLSI Circuit Design	1570444979	An efficient way of implementing high speed 4-Bit advanced multipliers in FPGA	Pramod Martha
				1570445377	Low Power implementation of Multi-bit Hybrid Adder using Modified GDI Technique	Shubham Sarkar
				1570445619	CMOS Logic Based 2:1 MULTIPLEXER	Snehashish Banerjee
				1570446117	Design of 2's Complement of 4-bit binary Numbers Using Quantum Dot Cellular Automata	Ratna Chakraborty
	Dr.Subhash Bhalla, AIJU University (Session Chair) Coordinator: Arunava Mukherjee	Hall 2 (Seminar Hall 2)	Microwave and Antenna	1570445507	Combined Sierpinski Carpet and Koch Fractal Patch Antenna with Fractal DGS for Wireless Applications	Akshata Sankhe
				1570445640	Pattern Synthesis of Large Numbered Beam-steered Linear Array Using Restricted Search Particle Swarm Optimization	Soumya Banerjee
				1570446131	SIW Based Semi-Circular 2x2 MIMO Antenna	Goffar Sarkar
				1570446819	Design and Analysis of Swastika-Slot Circular Patch Antenna For WLAN and Wi-MAX Applications	Amiya Sahoo

Dr. Ruchira Mukherjee, IEM (Session Chair) Coordinator: Jayanta Bhattacharya	Hall 3	Bioelectronics/ Mechatronics /Embedded System	1570447327	A Study on Wavelet Based Image Fusion	Pritom Adhikary
			1570448890	Voice Controlled Digital Thermometer for Medical Application	Arunava Mukhopadhyay
			1570445812	Auto-Moto Shoes: An Automated Walking Assistance for Arthritis Patients	Kazi Kowshin Raihana
			1570447141	A Comparative Study of Arithmetic Multipliers	Ruby Mishra

04:30 PM - 05:00 PM	<p align="center"> TEA BREAK / POSTER PRESENTATION (6P) Paper ID: 1570445157, 1570444350, 1570445169, 1570445126 </p>
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Time	Session Chair	Venue	Topic	Paper I.D.	Paper Title	Paper Authors
10:00 AM – 11:30 AM	Dr. Debika Bhattacharya, IEM (Session Chair) Coordinator: Sumita Ghosh	Science Hall	Wireless/Mob. Comm. & Comp	1570445256	Enhancement of Continuous-Stirred Tank Reactor System using Jaya Algorithm	Shekhar Yadav
				1570441649	Cooperative sharing based inter and intra cellular cognitive radio network and architecture	Pallavi Joarder
				1570442922	Enhanced Throughput Performance under Primary User Emulation Attack in Cognitive Radio Networks by Optimal Threshold Selection Approach	Kuldeep Yadav
				1570443913	Bit Error Rate Performance Analysis of Different Diversity Techniques for various Channels and also modeling the channel effect	Trilochan Patra
				1570444734	Improved Adaptive Cooperative Spectrum Sensing In Cognitive Radio Networks	Animesh Sahu
				1570444908	Combine Effect of Large and Small Scale Fading on the Performance of QAM	Pampee Das
				1570445339	Beamforming in MIMO Radar using Coprime Array	Minerva Priyadarsini
	Dr. Mohuya Chakraborty, IEM (Session Chair) Coordinator: Srijita Chakraborty	Hall 1 (Seminar Hall 1)	Wireless/Mob. Comm. & Comp.	1570445344	Amar Bangladesh - A Smart Tourist Guidance System For Countries With Under Privileged Tourism Facilities Using Machine Learning	Tasfiqul Ghani
				1570446110	Neonatal Sepsis Prediction Model for Resource-Poor Developing Countries	Jyoti Thakur
				1570446241	Security issues of a Three-Party Password Authenticated Key Exchange Protocol Resistant to Stolen Smart Card Attacks	Soumyajit Nag
				1570450688	Building of Low Cost Reliable Wireless Sensor Network for Smart Indoor Agriculture Products	Gourab Panda
				1570446809	Design of Portable Indicator for Underground Mines using 433 MHz Wireless Communication	Subhajit Indra

				1570447020	Performance Investigation of WAVE Network Under Influence of Highway Mobility	Harsukhpreet Singh
Dr. Manojit Mitra, IEST (Session Chair) Coordinator: Goutam Ghosh	Hall 2 (Seminar Hall 2)	Microwave and Antenna/ Wireless		1570447004	A Two Element H-plane Hemispherical Dielectric Resonator Antenna Array	Goffar Sarkar
				1570447170	Triple Band Non-Linear Manipulated Sierpinski-Knopp Fractal Wide-Slot Microstrip Antenna with Inverted L-shaped Strip	Munish Kumar
				1570447226	A Prominent Smart Gas Meter	Mohammad Rezaul Islam
				1570445159	Adaptation of Spectral Clustering in Telecommunication Industry for Customer Relationship Management	Lewlisa Saha
				1570446897	JAVA-GUI Package for Calculating Electrical Properties of Double Quantum Well Structure for End-User	Arpan Deyasi
				1570446084	Estimating Radar Backscatter From Water Wave Surface Using X band FMCW Radar	Akshay Rathod
			Dr. Ajoy Kumar Chakrabarty, IEM (Session Chair) Coordinator: Rajib Ghosh	Hall 3	Signal and Image Proc.	
	1570445934	Brain Tumor Segmentation on MR Image using K-means and Fuzzy-Possibilistic Clustering				Abhishek Bal
	1570446073	Handwritten Bangla Numeral Recognition using Convolutional Neural Networks				Jaya Paul
	1570446206	Microscopic Image Thresholding using Restricted Equivalence Function based Fuzzy Entropy Minimization and Bat Algorithm				Hiranmoy Roy
	1570447036	Spectral Analysis of vowels of Adi language of Arunachal Pradesh				Supriya Bordoloi
	1570447124	Plastic surgery face recognition using LBP and PCA algorithm				Pankaj Dadure

Time	Session Chair	Venue	Topic	Paper I.D.	Paper Title	Paper Authors
11:45 AM - 01:15PM	Dr.Saswati Barman, IEM (Session Chair) Coordinator: Gauri Prasad	Science Hall	Micro-Electr. Dev. Fab./Semiconductor devices	1570446134	Design optimization of CMOS Thermoelectric Energy Harvester for High Thermoelectric Efficiency	Indrajit Sil
				1570439293	Effect of Self-Consistency Technique on Current Density Profile of Resonant Tunneling Diode	Arpan Deyasi
				1570442248	Calculating Transconductance of Nano-HEMT for Different Parasitic Resistances and External Biasing Conditions	Arpan Deyasi
				1570445933	Demonstration of T-shaped channel Tunnel Field-Effect Transistors	Bijoy Goswami
				1570445223	Comparative Study of Faults for Two Different Transmission Systems	Sushma Verma
				1570446848	Synthesize and Characterization of Zinc Oxide Nanomaterial Specifically for Sensor Development	Prakash Viswanathan
	Dr.Rijuparna Chakraborty, IEM (Session Chair) Coordinator: S K Bishnu	Hall 1 (Seminar Hall 1)	Opto-Electr./ Accelerator , LASER Tech.	1570440186	Multi-crystal Achromatic Quarter Wave Retarder for the Air-Multiangle Spectropolarimetric Imager (AirMSPI) in SWIR region	Nilanjan Mukhopadhyay, Arijit Saha
				1570443740	Performance Analysis of Cladding Etched Fiber Bragg Grating Based Refractive Index Sensor	Shanta H Patil
				1570447235	Automatic Identification of Fracture Region within Bone in X-ray Image	Ananya Ghosh
				1570447227	A FSR Based Data Acquisition System to Study the Interaction of Different Footwear with Different Foot-regions	Siddhartha Sarkar
				1570446158	Design of Binary to Gray Code Converter for error Correction in Communication Systems Using Layered Quantum Dot Cellular Automata	Ratna Chakraborty
				1570445825	Analysis of Switching Topology for Advanced Isolated Bi-Directional DC-DC Converter	Mohammad Alam
	Dr.P.K.Roy, IEM (Session Chair) Coordinator: Murari Shaw	Hall 2 (Seminar Hall 2)	Robotics and AI/Industrial Electronics	1570446187	Investigating Blueshift in Peak of Modulation Response Curve at Quantum Well Laser Diode under Small-Signal Analysis	Arpan Deyasi

				1570445615	Clairvoyant Raven: Smart Drone For wild Fire Detection	Dhruv Bhatti
				1570445932	Key screw and Cylindrical grasp motion classification from same hand	Sayan Ghosh
				1570447208	Wind Speed Forecasting using Different Neural Network Algorithms	Sudish Kumar
				1570448109	A simple Star shaped Microstrip Patch Antenna for penta band application	Murari Shaw
				1570443319	Strategic Deployment of Distributed Generation and DSTATCOM in Radial Distribution System considering Reliability Aspect	Adyasha Singh
	Dr.Abir Chatterjee, UEM (Session Chair) Coordinator: Payel Midya	Hall 3	Industrial Electronics	1570445940	Performance Analysis of Unidirectional and Bidirectional Buck-Boost Converter using PID Controller	Nitesh Tiwari
				1570440258	Computing Bit Error Rate and Crosstalk for FBG based OWDM Network	Arpan Deyasi
				1570447071	A Novel Design and Implementation of Automated Feeding Mechanism in Fish Aquariums	Mohammad Abdul Hye
				1570447218	Precision Thermocouple Amplifier for substrate temperature monitoring in an ECR-PE nano-film deposition system	Aditya Mukherjee
				1570444523	Harmonic Analysis in L-G Fault for LCC Based HVDC	Aishwarya Sahoo
				1570445493	Power Dividers/Combiners for 1.5T MRI Solid State Power Amplifier	Vishal Boricha

Time	Session Chair	Venue	Topic	Paper I.D.	Paper Title	Paper Authors
02:30 PM - 04:00 PM	Dr.Shelly Sinha, JU (Session Chair) Coordinator: Payal Midya	Hall 1 (Seminar Hall 1)	Green Technology/M EMS ,Sensors, IOT.	1570447190	Provisioning Technical Interoperability within ZigBee And BLE in IoT Environment	Taibur Rahman
				1570447236	IMU based Accident Detection and Intimation System	Ajay Malepati
				1570444813	Assessment of Resource Potential and Feasibility Study of Standalone PV-Wind-Biogas Hybrid System for Rural Electrification	Abiy Abaye
				1570445705	Performance Study of Electronic Load Controller for Integrated Renewable Sources	Rajen Pudur
				1570435139	An intelligent method for optimizing the street-light-intensity	Gourab Das
				1570445332	Simulation and Analysis of MEMS based Multistep Piezoelectric Actuator	Rohan Ghosh
				1570454495	Comparator Design using CTL and Outputwired based Majority Gate	Rimi Sengupta
02:30 PM - 04:00 PM	Dr.Sunipa Roy, IEM (Session Chair) Coordinator: Mili Sarkar	Hall 2 (Seminar Hall 2)	Microwave	1570445274	RF Transmit/ Receive Quadrature Fed Body Birdcage Coil for a 1.5T MR System	Niraj Yadav
				1570445493	Power Dividers/Combiners for 1.5T MRI Solid State Power Amplifier	Vishal Boricha
				1570446084	Estimating Radar Backscatter From Water Wave Surface Using X band FMCW Radar	Akshay Rathod
				1570446088	Metamaterial unit cell with negative Refractive Index at C band	Minal Khombal
				1570446899	Design of a Pattern Reconfigurable Switched Parasitic Array for Null Steering Application	Roktim Konch
				1570445070	Performance of I-shaped EBG structures over Low Loss Angular Bend Substrate Integrated Waveguide (SIW)	Sourav Moitra
				1570448894	Circular Microstrip Patch Antenna with U-slots for multi band application	Murari Shaw
02:30 PM - 04:00 PM	Dr.Rijuparna Chakraborty, IEM (Session Chair) Coordinator: S K Bishnu	Hall 3 (Seminar Hall 3)		1570445169	Computing Surface Potential of Double Gate MOSFET for both Free and Doped Carrier Concentrations	Debarati Chakraborty
				1570444865	Sentiment Analysis of Movie Reviews Using Heterogeneous Features	Rachana Baldania

				1570446141	Network Intrusion Detection Using Clustering and Gradient Boosting	Parag Verma
				1570444813	Assessment of Resource Potential and Feasibility Study of Standalone PV-Wind-Biogas Hybrid System for Rural Electrification	Abiy Eshetu Abaye
				1570446189	LabVIEW Implementation of Ball and Beam System using Cascade PD Control	Shambhavi Chati
				1570445125	Designing of rectangular microstrip patch antenna at 2.48Ghz frequency for IRNSS application	Ravi Parikh