

RA EEUCCI

RECENT ADVANCES IN
ELECTRICAL, ELECTRONICS, UBIQUITOUS COMMUNICATION AND COMPUTATIONAL INTELLIGENCE

IST	Day 1 – 22nd April, 2022 https://zoom.us/j/5874286697?pwd=aUJLSUp6ZDVBCnNiWTVUTVZOSytjdz09 Meeting ID: 5874286697, Passcode: SS123SS	
09:45 -10:30	Inauguration	
10:30 - 11:15	Plenary Talk – 1	Prof. Ladislau Matekovits , Professor, Dipartimento di Elettronica e Telecomunicazioni, Politecnico di Torino, Italy Topic: Printed Implanted Antennas with Large Bio-metallic Ground Plane
11:15 -11:30	Tea Break	
11:30 - 12:15	Plenary Talk – 2	Dr. Pankaj Koinkar. Associate Professor, Department of Optical Science, Associate Professor, Department of Optical Science Vice-Director, Center for International Research and Educational Cooperation (CIREC) Tokushima University, Japan Topic: Nanosecond laser induced synthesis of two dimensional nanostructures
12:15- 13:15	Lunch Break	
13:15 - 14:00	Plenary Talk– 3	Dr. Eng-Hock Lim , Professor, Lee Kong Chian Faculty of Engineering and Science, Universiti Tunku Abdul Rahman, Malaysia. Topic: Reconfigurable Antennas with Ionic Polymer-Metal Composite (IPMC)
14:00- 14:20	Key Note Address – 1	Dr. Shrivasthav , Professor, Saveetha Engineering college, Retired scientist F, Former director, RF Sameer, Chennai

14:20- 16:30	Paper Presentation Session -1		
	Domain: Microwave & Optical Devices and Communications Session In Charge - Dr. M. Susila		Domain: Computational Intelligence Session In Charge - Dr. R. Prithviraj
	Track - 1 (Venue: TP1218/ Sir J.C. Bose Hall) Chairperson: Dr. S. Malarvizhi Dr. M. Sangeetha https://zoom.us/j/5874286697?pwd=aUJlSUU6ZDVBenNlWTVUTVZOSytdz09 Meeting ID: 5874286697 Passcode: SS123SS	Track - 2 (Venue: TP501,502) Chairperson: Dr. T. Ramarao Dr. Sachin Kumar https://zoom.us/j/93245300132?pwd=Wjk2QWYlVkVBVkRlUlpzVlRyYUUVyZz09 Meeting ID: 93245300132 Passcode: 060643	Track - 3 (Venue: TP1206) Chairperson: Dr. B. Ramachandran Dr. P. Eswaran https://zoom.us/j/5839853899?pwd=aGNxcTNyLlJlYkVkbkQlUUV6NytLWlpzZz09 Meeting ID: 5839853899 Passcode: 123456
	MOC014 - An ultra-wideband monopole antenna for skin cancer detection	MOC086 - Octagonal shaped slotted UWB Monopole MIMO Antenna for Smart Clothing	CI041 -A Novel technique for spatiotemporal dehazing of video image
	MOC034 - Design and Implementation of Miniaturization of Triangular Shape Dielectric Resonator Antenna Using AMC Surface for 5G Applications	MOC087 - Quad-port CPW fed semi-transparent car logo design antenna for vehicular applications	CI047 - Implementation of Quantum Key Distribution network simulation in Quantum Channel
	MOC062 - Modelling of one-bit Arithmetic Logic Circuit using silicon micro-ring resonator	MOC105 - Microstrip feed dual band and triple band frequency reconfigurable antenna for diverse applications	CI091 - Real Time Appearance Based Mapping using Visual Sensor for Unknown Environment
	MOC063 - Photonic crystal race track ring resonator design for the detection of cancer cells	MOC108 - Generation of adjustable micro-scale optical bottle beam by an axicon-lens system with asymmetric elliptical aperture	CI115 - Efficient Floating-point Division Quantum Circuit using Newton-Raphson Division
	MOC068 - A Terahertz/ Millimeter-Wave Based Detection and Imaging System Using Antenna-Coupled Microbolometer	MOC110 - Investigations on Mode Analysis of Distributed Bragg Reflector based Hybrid Plasmonic Terahertz Waveguide	CI161 - Waste Detection using Enhanced InceptionResNetv2 Model based on Transfer Learning
	MOC084 - High pass filter based on one-dimensional graded photonic crystal	MOC122 - Pressure Dependent Characteristics of 1D Random Photonic Crystals	CI178 - Design and implementation of blockchain based peer to peer energy trading platform
	MOC088 - Design of UWB Antenna for Multimedia and High-Speed Automotive Communication	MOC133 - Detection of hemoglobin concentration in blood samples using nanophotonic biosensor	
MOC102 - Coverage Optimization in LoRa with Diverse Fading Wireless Channels	MOC162 - Photonic Strip and Rib Channel Waveguides based Symmetrical Directional Couplers on Silicon-on-Insulator Platform		
MOC106 - Multiband Monopole Antenna Design for 2G-5G Applications	MOC163 - Performance Investigation of WDM based hybrid RF-FSO Link with Unmanned Aerial Vehicles based Optical Relays		

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IST	Day 2 – 23rd April, 2022 https://zoom.us/j/5874286697?pwd=aUJLSUp6ZDVBCnNiWTVUTVZOSytjdz09 Meeting ID: 5874286697, Passcode: SS123SS		
09:00 - 09:45	Plenary Talk – 4	Dr. Felix Albu , Professor, Department of Electronics, Valahia University of Targoviste, Romania Topic: Efficient implementations of adaptive filtering algorithms	
09:45- 10:45	Plenary Talk – 5	Dr. Vidhyacharan Bhaskar , Professor, California State University, USA, Adjunct Professor, Department of ECE, SRMIST Topic: Breaking the wireless barriers to mobilize 5G NR mmwave	
10:45 - 11:05	Key Note Address – 2	Dr. Astik Biswas , Principal Member of Technical Staff, Oracle Cloud Infrastructure Topic: Recent trends and challenges in automatic speech recognition	
10:35 - 12:30	Paper Presentation Session -2 Domain: Signal and Image Processing Session In Charge - Dr. S. Latha		
	Track - 4 (Venue: TP1218/ Sir J.C. Bose Hall) Chairperson: Dr. Vivek Maik Dr. M.S. Vasanthi https://zoom.us/j/5874286697?pwd=aUJLSUp6ZDVBCnNiWTVUTVZOSytjdz09 Meeting ID: 5874286697 Passcode: SS123SS	Track - 5 (Venue: TP501,502) Chairperson: Dr. S. Dhanalakshmi Dr. Bandaru Ramakrishna https://zoom.us/j/93245300132?pwd=-Wjk2QWVlVklVbVkiBUlpzVjRyYUJlVjZz09 Meeting ID: 93245300132 Passcode: 060643	Track - 6 (Venue: TP1206) Chairperson: Dr. P. Vijayakumar Dr. A. Ruhan Bevi https://zoom.us/j/5839853899?pwd=aGNxcTNoL1BjHWk9LkQlV6NvcjE1VjZz09 Meeting ID: 5839853899 Passcode: 123456
	SIP022- Noise and Blur Invariant Local Descriptor for Face Recognition	SIP098 - Investigation and Implementation of Convolutional Neural Networks with Transfer Learning for Detection of Covid-19	SIP147 - Comparison of various CNN encoders for image captioning
	SIP023 - Optical Imaging Extended Depth of Field Camera	SIP099 - A Novel technique for enhancing underwater visibility using Non-Local Stretch Directional Gradient	SIP152 - Analysis of various Pre-processing filtering methods for MRI brain tumor detection in a noisy environment

	SIP048 - A Machine Learning approach for classification of ovarian tumors	SIP117 - Glaucoma Retinal Image Detection and Classification using Machine Learning Algorithms	SIP155 - Identification of Casting Product Surface Quality Using Alex net and Le-net CNN Models
	SIP072 - Vision Based Obstacle Detection and Collision Prevention in Self-Driving Cars	SIP120 - Student Live Behaviour Monitoring During Virtual Class using Artificial Intelligence	SIP165 - Enhancing the design by optimizing MTF performance of MLA with overlapping aperture
	SIP094 - Brain Cancer Detection by Using Cluster Evaluation Technique	SIP135 - Correction of radial distortion for fisheye lens camera model using code V	SIP167 - A Hybrid Machine Learning Based Feature Selection Technique for Attack Detection in NIDS
	SIP095 - Performance evaluation of MDKF based on state estimations for path tracking applications	SIP146 - Skin Cancer Lesions Classification Using Probabilistic Neural Network	SIP181 - A Digital Twin Approach for Deepened Classification of Patients with Hepatitis, Fibrosis and Cirrhosis
	SIP096 - Design and Implementation of Acquire Carriage for Disabled people in a Visual Surveillance Using Character Recognition		SIP182 - Performance of Outage Probability and Ergodic Sum Rate for Two-User Paired NOMA Downlink System
12:30 - 13:30	Lunch Break		
https://zoom.us/j/5874286697?pwd=aUJLSUp6ZDVBenNiWTVUTVZOSytjdz09 Meeting ID: 5874286697, Passcode: SS123SS			
13:30 - 14:15	Plenary Talk – 6	Dr. Jean-Pierre Raskin , Professor, Department of Electrical Engineering, Université catholique de Louvain, Belgium Topic: SOI technologies for RF and millimeter-wave integrated circuits.	
14:15 - 14:35	Key Note Address – 3	Dr. Bhavin Khanpara , Solution Engineer Keysight Technologies, Bangalore Topic: Innovation in characterization for semiconductor device	
14:35 - 16:30	Paper Presentation Session -3 Domain: Electronic Devices, VLSI and Embedded Systems Session In Charge - Dr. J. Manjula		
	Track - 7 (Venue: TP1218/ Sir J.C. Bose Hall) Chairperson: Dr. P. Aruna Priya Dr. Rajesh Agarwal https://zoom.us/j/5874286697?pwd=aUJLSUp6ZDVBenNiWTVUTVZOSytjdz09 Meeting ID: 5874286697 Passcode: SS123SS		Track - 8 (Venue: TP501,502) Chairperson: Dr. J. Selvakumar Dr. Soumyaranjan Routray https://zoom.us/j/93245300132?pwd=Wjk2QWVlVkJlVlVktBUlpxVjRYaUVyZz09 Meeting ID: 93245300132 Passcode: 060643
	EVE009 - Wearable Virtual Keyboard for Visually Impaired Person	EVE123 - Implementation and Hardware Acceleration of Wiener filter algorithm using Vivado High Level Synthesis HLS for X-ray baggage Images	
	EVE015 - Wave Active Low Pass Filter Employing Modern Active Block VDDIBA	EVE143 - Design and Performance Analysis of Partially Depleted and Fully Depleted Silicon on Insulator MOSFET	

EVE024 - Hardware implementation of Element-Based Lattice Reduction algorithm for MIMO Detectors	EVE158 - IoT Enabled Waste Segregation System
EVE034 - Design of High-Speed Carry Skip Adder using Fast Full Adder	EVE179 - Design of high speed Multiplier using Input Scrambled 5-3 compressor for Error Tolerant image processing
EVE040 - Artificial intelligence based visual aid with live tracking of visually impaired people	EVE118 - Optimized Bit Swapping LFSR Method for Reduced Switching Activity
EVE069 - Design of digital fir filter with systolic architecture using reversible logic gates	EVE121 - Performance Analysis of CZTSe Kesterite Solar Cell by Adding CZTSSe as BSF Layer
EVE089 - High Gain CMOS Transimpedance Amplifier for Near Infrared Spectroscopy Applications	EVE173 - Performance Analysis of InAs-GaAs Gate-all-around Tunnel Field Effect Transistors (GAA-TFET) for Analog/ RF applications
EVE093 - Design and Simulation of Multi-gate Spin-FET using TCAD	

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IST	Day 3 – 24th April, 2022 https://zoom.us/j/5874286697?pwd=aUJLSUp6ZDVBenNiWTVUTVZOSytjdz09 Meeting ID: 5874286697, Passcode: SS123SS	
09:00 - 09:45	Plenary Talk – 7	Prof. Bong Jun Choi , Professor, School of Computer Science and Engineering, Soongsil University, South Korea Topic: Federated Learning for Future Energy Systems: Challenges and Opportunities
09:45 - 10:05	Key Note Address – 4	Dr. Subrat Swain , AI Manager EY company, Bangalore Topic: Future of AI
10:05 - 12:30	Paper Presentation Session - 4	
	Domain: Electrical Engineering Session In Charge - Dr. K. Selvakumar (EEE)	Domain: Multidisciplinary Engineering and Technology Session In Charge - Dr. R. Prithviraj
	Track - 9 Chairperson: Dr. Preetha Roseline Dr. Bharathiraja https://zoom.us/j/5874286697?pwd=aUJLSUp6ZDVBenNiWTVUTVZOSytjdz09 Meeting ID: 5874286697 Passcode: SS123SS	Track -10 Chairperson: Dr. R. Kumar Dr. P. Sandeep Kumar https://zoom.us/j/93245300132?pwd=Wjk2QWVlVkVBVktBUlpzVjRYaUVyZz09 Meeting ID: 93245300132 Passcode: 060643
	EE055 - Design and Analysis of Partial shading of the PV System Integrated with High-Frequency Inverter and Rectifier Operation for the Electric Vehicle	MET037 - Campus Routing Using QR code
	EE059 - Influence of physical parameters on the capacitance of laminated busbars for electric vehicles	MET129 - A threshold-based data peak filtering algorithm for stereotypic arm flapping detection and analysis in a autistic child
	EE074 - Performance Improvement of Power Transmission Networks Under Stressed Condition	MET134 - A low-cost portable ventilator using IoT
	EE104 - Adaptive Central Control Scheme and Investigation of Fault Current Contribution for Protection of Microgrid	MET138 - Smart Trolley Application with an Approximate Multiplier Approach Using Embedded Platform
	EE112 - Design of Novel Solar Tree Phyllotaxy for Enhanced Performance	MET141 - Non-invasive optical technique for the detection of neonatal hyperbilirubinemia

	EE139 - Wireless power charging system with self-adjusting charge nodes for electric vehicles	MET159 - Designing a Hybrid Microgrid Model for the District of Boudh, Orissa for Optimal, Efficient, and Low-Cost Energy Generation and Distribution
	EE145 - Intelligent Control for Islanded Operation of Doubly Fed Induction Generator based Wind Energy Conversion System coupled to DC Micro-Grid	MET160 - Optimization of compact zoom lens design for imaging systems
	EE149 - Dynamic State Estimation of Electric Power Systems Using Kalman Filtering Techniques	MET185 - The Next level of Security Scalable Solution Blockchain (SSSB) in Satellite Communication System
	EE164 - A Five Leg Converter with Multi-Transmitter for an In-Motion Charging System	MET187 - Smart Contract-Based Access Control in Instant Cryptocurrency Exchange
12.30 -13.30	Lunch Break	
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13:30 -14:15	Plenary Talk– 8	Dr. Nasimuddin , Scientist III, Institute for Infocomm Research, A*STAR, Singapore Topic: RF Energy Harvesting System: Overview and Antenna Design Considerations
14:15 -13:00	Valedictory	