

**The 9th Annual Information Technology, Electromechanical nad MicroElectronics Conference
IEMECON 2019
Program Schedule**

Day/Date	Event Details	Venue	Time	
Day-1 13/03/2019	Registration	Birla Auditorium- Lobby	9:00 AM-10:00 AM	
	Breakfast	High Tea area, 2nd floor	9:00 AM-10:00 AM	
	INAUGURAL SPEECH BY PROF. (DR.) SATYAJIT CHAKRABARTI (CHANCELLOR, UNIVERSITY OF ENGINEERING & MANAGEMENT, Website: http://uem.edu.in)	Conference Hall, 2nd Floor		10:00 AM-10:30 AM
	Corporate Keynote 1: 'Digital Fabrication - a new way of making things' by Mr. Guruprasad Rao Imaginarium India Pvt. Ltd, India	Conference Hall, 2nd Floor		10:30 AM-11:00 AM
	Research Keynote 1: 'Smart Systems: Concept to Product' by Prof. (Dr.) Rajesh Kumar Malviya National Institute of Technology, Jaipur, India	Conference Hall, 2nd Floor		11:00 AM-11:30 PM
	Corporate Keynote 2: Mr. Arvind Kaul, Enertrak Instruments Pvt. Ltd., Jaipur, India	Conference Hall, 2nd Floor		11:30 AM-12:00 PM
	Lunch	High Tea area, 2nd floor		12:00 PM-1:00 PM
		Paper ID: Title	Author(s)	
	Session-E1 Track: Electromechanical 1:00 PM-2:30 PM Venue: Room-1, 2nd Floor Session Chairs: Mr. Guruprasad Rao, Dr. Rajeev Nayan Gupta	1570512721: Remote Fault Monitoring System of a Transformer using GSM Technology	Subrata Chatterjee (National Institute of Technical Teachers' Training and Research, Kolkata & Under MHRD, Government of India, India); Mandakinee Bandyopadhyay (Gandhi Institute for Education and Technology, BBSR, India); Nirupama Mandal (Indian Institute of Technology (ISM) Dhanbad, India); Satish Bera (Calcutta University, India)	1:00PM - 2:30PM Venue: Room-1, 2nd Floor
		1570514674: Design of Fractional order controller via CRONE Principle for Time Delayed systems	Antima Kumari (Indian Institute of Technology Roorkee, India); Indra Gupta (IIT Roorkee, India)	
		1570516999: Experimental Investigations of Optimum Sheet Metal Blanking Clearance for IS2062HR Steel Using Artificial Neural Network	Vijaya Patil and Pradip Patil (SIES Graduate School of Technology, India)	
		1570517227: Preliminary Design and Fabrication of Bio Inspired Low-Cost Hybrid Soft-Rigid Robotic Hand for Grasping Delicate Objects	Golak Bihari Mahanta, Amruta Rout and Bbvl Deepak (National Institute of Technology, Rourkela, India); Bibhuti Bhusan Biswal (National Institute of Technology, India); Bala Gunji (NIT Rourkela, India)	
	Session-IT1 Track: Information Technology 1:00 PM-2:30 PM Venue: Conference Hall, 2nd Floor Session Chairs: Prof. (Dr.) Rajesh Kumar, Prof. Sauvik Bal	1570498446: A Data Mining Approach to Flight Arrival Delay Prediction for American Airlines	Navoneel Chakrabarty (Jalpaiguri Government Engineering College, India)	1:00 PM-2:30 PM, Venue: Conference Hall, 2nd Floor
		1570509385: A New Crab Shell Search Algorithm for Optimal Assembly Sequence Generation	Bala Gunji (NIT Rourkela, India); Bb Biswal, Bbvl Deepak, Amruta Rout and Golak Mohanta (National Institute of Technology, Rourkela, India)	
		1570510387: Error correction using LDPC code for performance improvement in clipped and biased OFDM with direct detection over optical fiber	Usha Choudhary (Malaviya National Institute of Technology, India); Vijay Janyani (Malaviya National Institute of Technology, Jaipur, India)	
	1570514429: 3D Path Planning of Fixed and Mobile Environments Using Potential Field Algorithm Improved by Genetic Algorithm	Ahmed Albaghdadi (University of Basra, Iraq); Abdulkadhim Abdulkareem Ali (University of Basrah, Iraq)		
	1570514524: ZigBee Based Clamp-On IoT Energy Meter	Nanda Kishor Panda (VIT University, Vellore, India); Mayank Senapati and S Meikandasivam (Vellore Institute of Technology, India); Vijayakumar Devarajan and Jagannatha Pandian (VIT University, India)		
Session-M1 Track: Microelectronics 2:30 PM-4:30 PM Venue: Conference Hall, 2nd Floor Session Chairs: Mr. Arvind Kaul, Prof. Angshuman Khan	1570513916: Design and Performance of High-speed Low-Offset CMOS Double-Tail Dynamic Comparators using Offset Control scheme	Avaneesh K Dubey and Pratosh Pal (MNNIT Allahabad, India); Vikrant Varshney (Mottal Nehru National Institute of Technology Allahabad, India); Ankur Kumar (MNNIT ALLAHABAD, India); Rajendra Kumar Nagaria (M.N. National Institute of Technology, India)	2:30 PM-4:30 PM Venue: Conference Hall, 2nd Floor	
	1570508496: A 302 uW CMOS Temperature Sensor to compensate frequency drift for an oscillator	Jigme Zangpo (College of Science and Technology, Bhutan); Jorge Guilherme (Instituto Politécnico de Tomar, Portugal); Nuno Horta (Instituto Superior Técnico, Portugal); Gom Dorji (College of Science and Technology, Bhutan)		
	1570510909: Optical characterization of RF sputtered AlN thin film for acoustic and optoelectronics devices	Ashish Kumar (Malaviya National Institute of Technology, India); Mahanth Prasad (CSIR-Central Electronics Engineering Research Institute (CEERI), India); Vijay Janyani (Malaviya National Institute of Technology, Jaipur, India); R. P. Yadav (MNNIT, India)		
	1570514924: High Throughput Architecture for KLEIN Block Cipher in FPGA	Pulkit Singh (National Institute of Technology, Raipur, India)		
	1570517863: An Efficient Hardware Architecture for Route Discovery in AODV for a Sensor node	Shaik Hafizullah (NIT Raipur, India)		
Session-IT2 Track: Microelectronics 2:30 PM-4:30 PM Venue: Room-1, 2nd Floor Session Chairs: Prof.(Dr.) Sanjay Kumar, Prof. Ratul Dey	1570514746: Automatic Detection of Autism Spectrum Disorder by Tracing the Disorder Co-morbidities	Tanu Wadhwa and Deepti Kakkar (NIT Jalandhar, India)	2:30 PM-4:30 PM Venue: Room-1, 2nd Floor	
	1570514956: An Empirical Framework for Web Service Anti-pattern Prediction using Machine Learning Techniques	Lov Kumar (Birla Institute of Technology & Science, Pilani- Hyderabad, India); Sahithi Tummalapalli (BITS Pilani Hyderabad Campus, India); Lalita Bhanu Murthy Neti (Birla Institute of Technology & Science, Pilani- Hyderabad, India)		
	1570516351: Cognitive Radio Spectrum Classification using FLA-SVM	Ayush Gupta (NIT RAIPUR, India)		
	1570516727: Third Party Messaging at the Network Edge	Evelina Pencheva, Ivaylo Atanasov and Vladislav Vladislavov (Technical University of Sofia, Bulgaria)		
	1570516735: Evaluation of Multi-access Edge Computing Deployment Scenarios	Evelina Pencheva, Ivaylo Atanasov, Denitsa Velkova and Vencislav Trifonov (Technical University of Sofia, Bulgaria)		
	High-Tea	High Tea area, 2nd floor	4:30PM-5:00PM	

Registration		Birla Auditorium- Lobby		9:00 AM-10:00 AM
Breakfast		High Tea area, 2nd floor		9:00 AM-10:00 AM
Research Keynote 3: 'Development of AlGaIn/GaN HEMT based heavy metal ion sensors for water quality monitoring' by Dr. Mahesh Kumar Indian Institute of Technology, Jodhpur, India		Conference Hall, 2nd floor		10:00 AM-10:30 AM
Session-M2 Track: Microelectronics 10:30 PM-12:30 PM Venue: Room 1, 2nd Floor Session Chairs: Prof. (Dr.) Mahesh Kumar, Prof. Sauvik Saha		1570517260: Investigation of Back Gate Effects on the Electrical Characteristics of Fully-Depleted Silicon-On-Insulator MOSFET Mohit Garg (Birla Institute of Technology and Science (BITS) Pilani, India); Vinod Chaubey (Birla Institute of Technology and Science - Pilani, India); Soumendu Sinha (CSIR-CEERI, Pilani, India)	1570519297: An Improved SI UMOS with Modified Gate Electrode to Reduce Gate Charge Prashant Kumar Kushwaha (NIT, India)	10:30 PM-12:30 PM Venue: Room 1, 2nd Floor
		1570520037: Hardware implementation of PICCOLO Encryption Algorithm for constrained RFID application Gandu Ramu (NIT Raipur, India)	1570520387: Newly Adopted Non Conventional Cantilever for Piezoelectric Energy Harvesting at Ultra Low Resonant Frequency Abhishek Ray (National Institute of Technology Raipur, India)	
		1570513391: Ultraviolet photodetector based on chemical vapor deposition grown MoO3 microplates Rahul Kumar (Indian Institute of Technology Jodhpur, India)	1570526519: A Novel Multi-gate Junctionfree gated resistor based ISFET for pH detection Jaydeep Parmar (MNIT, India); Nawaz Shafi (Malaviya National Institute of Technology Jaipur, India); Chitrakant Sahu (MNIT Jaipur, India)	
		1570515689: A Novel Approach towards Pattern and Speed Invariant Image Based Analysis of Dynamic Gesture Recognition System Songhita Misra and Rabul Laskar (NIT SILCHAR, India)	1570515724: Eye Center Guided Constrained Local Model for Landmark Localization in Facial Image Manir Ahmed, Rizwan Ahmed and Arnab Jyoti Thakuria (National Institute of Technology Silchar, India); Rabul Laskar (NIT SILCHAR, India)	
		1570516807: Hardware Architecture for CSMA/CA Algorithm for IEEE 802.15.4 LR-WPANS Shashank Gavel, Nandamuri Raja and Ajay Raghuvanshi (National Institute of Technology Raipur, India)	1570525065: Controlling Multiple Home Appliances Through Google Assistant And Monitoring Sensor's Data From Server Dipta Mukherjee and Sujoy Kundu (UEM Jaipur, India); Tapasundar Kar (University of Engineering and Management Jaipur, India); Anirban Chakraborty (University of Engineering & Management, Jaipur, India)	
Session-IT3 Track: Information Technology 10:30 PM-12:30 PM Venue: Conference Hall, 2nd Floor Session Chairs: Prof. (Dr.) Manish Tiwari, Prof. (Dr.) Dinesh Yadav, Prof. Somen Nayak		1570517264: An Empirical Framework for Code Smell Prediction using Extreme Learning Machine Lov Kumar, Lalita Bhanu Murthy Neti and Himanshu Gupta (Birla Institute of Technology & Science, Pilani- Hyderabad, India)	1570517312: Neural Network Based Patterns Detection in Object Oriented Program Ashish Kumar Dwivedi (Gayatri Vidya Parishad College of Engineering, India)	10:30 PM-12:30 PM Venue: Conference Hall, 2nd Floor
LUNCH		High Tea Area		12:30PM-1.30PM
Session-E2 Track: Electromechanical 2:30 PM-3:30 PM Venue: Room-1, 2nd Floor Session Chairs: Prof. (Dr.) Subrata Chattopadhyay, Prof. Riya Sen		1570520299: Field oriented control of IM drive using speed sensor fed with 3LDC Inverter Sanjay Kumar Kakodia (NIT KKR, India); Giribabu Dyanamina (NIT Kurukshetra, India)	1570522159: An Investigation on Two Stage VSI and ZSI for PV based Single Phase Application Kartik Sharma (Rajasthan Technical University, India); Shiv Shanker and Lata Gidwani (Rajasthan Technical University, Kota, India); Dheeraj Kumar Palwalia (Rajasthan Technical University, India)	2:30 PM-3:30 PM Venue: Room-1, 2nd Floor
		1570511241: Optimal time-jerk-torque trajectory planning of industrial robot under kinematic and dynamic constraints Amruta Rout and Golak Bihari Mahanta (National Institute of Technology, Rourkela, India); Bala Gunji (NIT Rourkela, India); Bbvi Deepak (National Institute of Technology, Rourkela, India); Bibhuti Bhusan Biswal (National Institute of Technology, India)	1570519169: Strategic Markowitz Portfolio Optimization (SMPO): A Portfolio Return Booster Navoneel Chakraborty and Sanket Biswas (Jalpaiguri Government Engineering College, India)	
Session-IT4 Track:Information Technology 2:30 PM-4:00 PM Venue: Conference Hall, 2nd Floor Session Chairs: Prof. (Dr.) Manish Tiwari, Prof. (Dr.) Dinesh Yadav, Prof. Sauvik Bal		1570520329: Robust lane detection in hilly shadow roads using hybrid color feature M Kodeeswari (National Institute of Technology, India); Philemon Daniel (National Institute of Technology Hamirpur, India)	1570520391: Comparison of ARIMA and SVM for Short-term Load Forecasting Abdullah Al-Amin (University of Asia Pacific, Bangladesh)	2:30 PM-4:00 PM Venue: Conference Hall, 2nd Floor
		1570528818: GSM controlled location specific garbage collecting Smart-bin Riya Sen (Adamas University, India); Biswajit Jana, Supratim Sengupta, Suvasis Porey and Pragnapan Roy (UEM Jaipur, India)	1570522205: Conceptual Framework of a Prototype Data Driven Decision Support System for Farmland Health Assessment using Wireless Sensor Network Sanjay Motia (GGSIU Dwarka Delhi, India); S. R. N Reddy (Indira Gandhi Delhi Technical University For Women(GDTUW), India)	
High-Tea		High Tea area, 2nd floor		4:00PM-4.30PM
Registration		Birla Auditorium- Lobby		9:00 AM-9:30 AM
Breakfast		High Tea area, 2nd floor		9:00 AM-9:30 AM
Research Keynote 3: 'Internet of Vehicles: Challenges and Some Solutions' by Dr. Arun Prakash Motilal Nehru National Institute of Technology, Allahabad, India		Conference Hall, 2nd floor		9:30 AM-10:00 AM
1570524400: An Energy Balanced Load Aware Relay Selection in Cooperative Routing for Wireless Sensor Network Yogesh Tripathi (Motilal Nehru National Institute of Technology Allahabad, India); Arun Prakash (MNNIT Allahabad); Rajeev Tripathi (M.N.N.I.T Deemed University, India)		1570525269: Encryption in MicroSD Card Reader or USB Data Storage Devices Supratik Sen, Sritama Sengupta and Sayan Mukherjee (UEM, India); Shohan Dey (University of Engineering and Management, India); Rupayan Das (UEM Jaipur, India); Sagarika Ghosh (UEM, India); Sauvik Bal (Institute of Engineering & Management, India)		
1570528819: Prediction Future Disaster Using Convex Hull & K-Mean, An Approach Ratul Dey (University of Engineering & Management, India); Abhinab Basak and Arindam Sinha (UEM Jaipur, India); Kaunteya Shaw (University of Engineering and Management Jaipur, India)				

Day-2
14/03/2019

Day-3 15/03/2019	<p>Session-IT5 Track:Information Technology 10.00AM-12.30PM Venue: Conference Hall, 2nd Floor</p> <p>Session Chairs: Prof. (Dr.) Arun Prakash, Prof. Sagarika Ghosh</p>	<p>1570517019:A Quantitative Performance Assessment of surface EMG and Accelerometer in Sign Language Recognition</p>	Rinki Gupta (Amity University Noida, India)		<p>10.00AM-12.30PM Venue: Conference Hall, 2nd Floor</p>
		<p>1570526305:Multiple Mode Resonator Based Triple Band Filter for WLAN, Intelligent Transportation System, Satellite Communication and X-Band Applications</p>	Prashant Ranjan (Motilal Nehru National Institute of Technology Allahabad, India); Surajit Sur (UEM, India); Vishal Pandey (Netaji Subhas Institute of Technology, India)		
		<p>1570520440:Design and Implementation of IoT Based Perspicacious Egg Incubator System</p>	Naeemul Islam, Mohammad Nayim Uddin, Asif Mohammad Arfi, Sohan Ul Alam and Md. Mayen Uddin (International Islamic University Chittagong, Bangladesh)		
		<p>1570521203:An Efficient Enhancement Technique based on SWT for WCE Image Enhancement</p>	Nithin Malathkar and Surender Soni (NIT Hamirpur, India)		
		<p>1570525454:Unique Digitized Activity Signature for Human Authentication</p>	Dipta Mukherjee (UEM Jaipur, India) Suman Godara (University of Engineering & Management, India) Asif Iqbal (University of Engineering and Management Jaipur, India) Souvik Maji (UEM Jaipur, India) Aritra RoyUEM Jaipur, India)		
	LUNCH	High Tea Area			12:30PM-1.30PM
	<p>Skype Session-1 Track:Electromechanical and Information Technology 1.30PM-3.30PM Venue: Conference Hall, 2nd Floor</p> <p>Session Chairs: Prof. Uttam Narendra Thakur, Prof. Chiradeep Mukherjee</p>	<p>1570517078:On The Road to A Comparative Car Racing EEG-based Signals for Mental and Physical Brain Activity Evaluation</p>	Ahmed Mansour (Research Assistant at Smart CI Research Center of Excellence, Egypt); Hebatalla Ouda (Alexandria University, Egypt)	Electromechanical	<p>1.30PM-3.30PM Venue: Conference Hall, 2nd Floor</p>
		<p>1570519577:Fuzzy Logic based Relay Selection for MmWave Communications</p>	Rehab Mahmoud, Hamada Esmail and Osama A. Omer (Aswan University, Egypt)	Information Technology	
		<p>1570511202:Evolution of Wireless Standards for Health Monitoring</p>	Abdul Saboor (NUST School of Electrical Engineering and Computer Science (SEECs), Pakistan); Rizwan Ahmad (SEECs NUST & Victoria University, Pakistan); Muneeb Ahmed Khan (National University of Sciences and Technology (NUST), Pakistan); Adeel Mustafa (NUST, Islamabad Pakistan, Pakistan); Muhammad Haris (School of Electrical Engineering and Computer Science (NUST), Pakistan); Rashid Hameed (National University of Sciences & Technology (NUST), Pakistan)		
		<p>1570513576:Supervision Deadlock Prevention of FMSs Using a Class of Petri Nets - S4PR</p>	Mowafak H Abdul-Hussein (University of Technology, Baghdad, Iraq)		
<p>1570516738:The Impact of Data Pre-Processing Techniques and Dimensionality Reduction on the Accuracy of Machine Learning</p>		Hadeel S. Obaid (University of Information Technology and Communications, Iraq); Saad Dheyab (University of Information Technology and Communications (UoITC), Iraq); Sana Sabah Sabry (University of Information Technology and Communications, Iraq)			
<p>1570517068:Comparison of Person Tracking Algorithms Using Overhead View Implemented in OpenCV</p>		Kaleem Ullah (Institute of Management Sciences, Pakistan); Imran Ahmed (Institute of Management Sciences Hayatabad, Peshawar- Pakistan, Pakistan); Misbah Ahmad and Iqbal Khan (Institute of Management Sciences, Pakistan)			
<p>1570517334:The Road to the Internet of Things: a Survey</p>		Sana Sabah Sabry (University of Information Technology and Communications, Iraq); Noor Ahmed Qarabash (University of Information Technology and Communication, Iraq); Hadeel S. Obaid (University of Information Technology and Communications, Iraq)			
<p>1570519552:Natural Human Robot Interaction Using Artificial Intelligence: A Survey</p>		Rishikesh Bamdale, Shreejeet Sahay and Varsha Khandekar (Sinhgad Institutes (SKNCOE), India)			
Prize distribution	Conference Hall, 2nd floor			3:00 PM-3:30 PM	
Valedictory session	Conference Hall, 2nd floor			3:30 PM- 4:30 PM	
High-Tea	High Tea area, 2nd floor			4:00 PM- 4:30 PM	