

IEEE TENSYP 2017

14-16 July 2017, Le Meridien, Cochin, Kerala

Day 1 - 14 July 2017

09.00-10.00	Registration		
10.00-10.30	Tea Break		
10.30 -12.30	Tutorial Cognitive IoTs for smart cities: handling connectivity issues in the system design Dr.Manjunath, Principal Consultant, WIPRO Tech, Bangalore		
12.30 - 13.30	Lunch Break		
13.30 - 15.15	Tutorial Software Defined Networking for Smart Communication Anil Kumar Gupta, Joint Director, CDAC-Pune & Sweta Anmulwar, C-DAC, Pune		Workshop Smart technologies using advanced ICT Technologies: innovations and practices towards smarter society Amir Masoud Gharehbaghi, Assistant Professor, VLSI Design and Education Center, Tokyo
15.15 - 15.45	Tea break		
15.45 -16.45	Tutorial Using Technology to fulfil aspirations of Smart Pune Prof G.S.Mani, Former Director and Dean DIAT(DRDO) & Dr.Surekha Deshmukh, Prof, PVG College of Engineering, Pune		Workshop IEEE Standards in IoT and Smart Cities Sri Chandra, Director Standards and Technology, IEEE
17.00-18.30	Inaugural Function Chief Guest - Dr.KT Jaleel , Minister for Local Self Governance Keynote address - Prof.UB Desai, Director, IIT Hyderabad		
18.30-19.00	High Tea		

Day 2 - 15 July 2017

	Manappuram 2	Raja Ravi Varma Hall	Travancore Hall	Manapuram 1
09.00-10.00	Plenary Talk I Mr.A P M Muhammed Hanish IAS			
10.00-10.30	Tea break			
10.30-12.00	Smart Energy	Smart Mobility	Smart Building	Smart Water Management
12.00-13.00	Smart Energy	Smart Mobility	Smart Health	Smart Waste Management
13.00-14.00	Lunch Break			
14.00-15.30	Smart Energy	Smart Mobility	Smart Health	R10 WIE Track
15.30-16.00	Tea break			
16.00-17.00	Smart Energy	Smart Mobility	Smart Health	R10 YP Track
17.00-18.00	Smart Energy	Smart Mobility + Smart Infrastructure	Smart Health	
18.30-20.30	Cultural Program and Banquet Dinner			

Day 3 - 16 July 2017

09.00-10.00	Plenary Talk II Dr. Kukjin Chun, Professor, Seoul National University, Korea & Director IEEE Region 10			
10.00-10.30	Tea break			
10.30-12.00	Smart Energy	Smart Governance	Smart Communications	Smart Security
12.00-13.00	Smart Energy	Smart Governance	Smart Communications	Smart Security
13.00-14.00	Lunch Break			
14.00-15.30	Smart Energy	Smart Energy	Smart Communications	R10 SAC Track

16.00-18.00

Valedictory Function

R10 HT Track

IEEE TENSYPM 2017

Paper Presentation Schedule

Day 2 - 15 July 2017

10.30 - 12.00

Manappuram 2

Smart Energy

Session Chair: Dr.Surekha Deshmukh, Professor, PVG College of Engineering, Pune

1570336915	Optimum Sizing of Storage and Charging Strategy for Grid Connected Photo-voltaic System	Sulabh Sachan (MNNIT; ALLAHABAD, India); Nand Kishor (MNNIT Allahabad, India)
1570341562	Droop Control in Low Voltage Islanded Microgrids for Sharing Nonlinear and Unbalanced	Blessy John and Arindam Ghosh (Curtin University, Australia); Firuz Zare (University of Tushar Patil (North Maharashtra University, India); Umesh Bhadade (SSBT College of Engineering ; Technology, India)
1570342366	analysis of modified load coil for IH geysers	Jino Joy (University of Kerala, India)
1570343543	Energy Harvestation and Effective Utilization by Regenerative Braking and Motoring	Archana Talhar (Belge) (University of Nagpur, India); Sanjay Bodkhe (Shri Ramdeobaba College of Engineering & Management Nagpur, India)
1570348531	Use of Solar Energy for Green Building & Reduction in Electricity Bill of Residential Consumer	Rijesh A and Soumyabrata Chakraborty (Tata Consulting Engineers Limited, India)
1570343999	Performance analysis of Smart device - STATCOM for grid application	

Raja Ravi Varma Hall

Smart Mobility

Session Chair: Prof G.S.Mani, Former Director and Dean, Defence Institute of Advanced Technology, Pune, India

1570332842	Obstacle Detection and Classification using Deep Learning for Tracking in High-Speed Autonomous Driving	Govdham Prabhakar, P G (Indian Institute of Science & IITDM Kancheepuram, India); Sudha Natarajan (Tata Elxsi, India); Binsu Kailath (IIITD;M Kancheepuram, India)
1570340049	Cardiac Arrhythmia Based Vehicle Control System	Jithin Mandoth Veetil (ENGINEER, India)
1570341151	Advanced Traveler Information System using COCOMO and ECOMO	Manish Charurvedi (Pandit Deendayal Petroleum University, India); Sanjay Srivastava (Dhirubhai Ambani Institute of Information and Communication Technology, India)
1570341767	Design of a Real-time Pedestrian Detection System for Autonomous Vehicles	Harshitha R (Bangalore Institute of Technology, India); Manikandan J (PES University (PESU), India)
1570341854	Identifying High Pollution Level Regions Through A Terrestrial Mobile Monitoring System	Katasani Venkata Sai Vineeth and Bandla Vamshi (Indian Institute Of Information Technology Chittoor, Sri City, India); Vinay Kumar Mittal (Indian Institute of Technology Chittoor, Sri City, India)
1570342060	Design and Evaluation of SAR Image Compression System for Airborne Vehicles	Sushmitha MC (Bangalore Institute of Technology, India); Manikandan J (PES University (PESU), India)

Travancore Hall

Smart Building

Session Chair: Dr. C Vjayanthi, National Institute of Technology, Goa

1570343579	Demand Response in Smart Buildings Through Time-Varying Priority of Household	Arun S L and Aravind Raj A (National Institute of Technology Tiruchirappalli, India); Selvan M p
1570343720	Implementation of Net Zero Energy Building (NZEB) Prototype with Renewable Energy Integration	Rushikesh Babu Kongala (NIT GOA, India); C. Vjayanthi (Indian Institute of Science, India)
1570344462	Segmentation of hand from cluttered backgrounds for hand geometry biometrics	Akshay Bapat (Indian Institute of Technology Indore, India); Vivek Kanhangad (IIT Indore, India)
1570348538	Energy Budget Constrained Comfort Optimization for Smart Buildings	Pradnya Gaonkar (International Institute of Information Technology - Bangalore & IIITB, India); Amudheesan Aadithan N (International Institute of Information Technology Bangalore, India); Jyotsna Bapat (International Institute of Information Technology, India); Debabrata Das (International Institute of Information Technology - Bangalore, India)
1570349869	Regression Based Approach for Measurement of Current in Smart Energy Meter	Shashank Singh and Arun S L (National Institute of Technology Tiruchirappalli, India); Selvan M p (National Institute of Technology, Tiruchirappalli, India)
1570343879	Automatic Multi-Label Image Annotation for Smart Cities	Gyayak Sanghi, Sagar Deshmukh and Nalin Kanungo (IIIT Allahabad, India); Sonali Agarwal (Indian Institute of Information Technology, Allahabad, India)

Manappuram 1

Smart Water Management

Session Chair: Dr.Ravi Kishore Kodali, National Institute of Technology Warangal

1570348977	Optimization of Water Consumption Using Dynamic Quota based Smart Water Management System	Naman Satiya (College of Engineering, Pune (CoEP), India); Vinit Varu and Aakanksha Gadagar (College of Engineering, Pune, India); Darshan Shaha (College of Engineering Pune & Shivajinagar Pune, India)
1570349239	A Neuro-Fuzzy Approach for Domestic Water Usage Prediction	Jithish J and Sriram Sankaran (Amrita University, India)
1570349256	A Novel Smart Water-Meter based on IoT and Smartphone App for City Distribution Management	Suresh Manchukutty, Chandapillai Jacob and Muthukumar Umapathy (Fluid Control Research Institute, India)
1570349317	Smart Waste Water Treatment	Ravi Kishore Kodali (National Institute of Technology, Warangal, India)
1570349344	IoT-Based Smart Automated Irrigation System, Nutrient Detection and Disease Analysis	Amogh Rau and Jairam Sankar (Rajagiri School Of Engineering and Technology, India)
1570344601	The Effect of Considering Individual Learning Processes When Creating Online Learning Environments:	P. W.C. Prasad (Charles Sturt University Study Centre Sydney, Australia); Cheng Wang (Charles Sturt University, Australia); Angelika Maag and Abeer Alsadoon (Charles Sturt University, Australia); Amr Elchouemi (Charles Sturt University Study Centre Sydney, Australia); Sasikumaran Sreedharan (King Khalid University, Saudi Arabia)

12.00 - 13.00

Manappuram 2

Smart Energy

Session Chair: Vijay Barve, Tata Consulting Engineers, India

1570344028	Smart lighting for Smart cities	Vijay Barve (Tata Consulting Engineers, India)
1570344135	Isolated SEPIC Converter fed Trinary Hybrid Cascaded H-bridge Multilevel Inverter for Solar PV System	Nirmal Mukundan C. m. (Kannur University Kerala state India, India); Pychdathil Jayaprakash (Government College of Engineering, Kannur, India)
1570344195	On Adaptive Fault Current Limiter in Distribution Systems with Distributed Generations	Varsha Shukla (IIT Kanpur, India); Abheejeet Mohapatra (Indian Institute of Technology Kanpur, India); S N Singh (IIT Kanpur, India)
1570344211	A Hybrid Algorithm for Optimal allocation of DG in Radial Distribution System	Rakesh Rayabarapu (Vaagdevi College of Engineering & JNTUH, India); Venkata Papana (Chaitanya Bharathi Institute of Technology, India); Sravani Keerthi (SR Engineering College, India)

Raja Ravi Varma Hall		
Smart Mobility		
Session Chair: Mr. R. Srinivasan, ICFOSS Kerala & Chair, Computer Society, Kerala Chapter		
1570344053	Smart Surveillance based on Video Summarization	Sinnu Susan Thomas (IIT KANPUR, India); Sumana Gupta (IIT, Kanpur - INDIA, India); Venkatesh K Subramanian (IIT Kanpur, India)
1570344201	Vehicle Tracking using Modified Fast Compressive Tracking Algorithm	Lastitha Mekkiyal and Hariharan Ramasangu (M. S. Ramaiah University of Applied Sciences, India)
1570344203	A Climate-Invariant Intelligent Real-Time System to Recognise and Report Road Accidents	Sukanyathara J (API Abdul Kalam Technological University, India); Lalu Seban (National Institute of Technology Silchar, Assam, India)
1570344246	IoV based Dynamic Batch Formation and Scheduling Technique for Driverless Vehicles	Samaahita S Belavadi, Vidhu Malik and Tejas Udayakumar (PES University, Bengaluru, India); Srinivas A (Dayananda Sagar University, Bengaluru, India); Rajasekar Mohan (PES Institute of Technology, Bengaluru, India and Member IET)
Travancore Hall		
Smart Health		
Session Chair: Dr. Punithavathi Thirunavakkarasu, Universiti Kuala Lumpur, Malaysia		
1570341062	A Framework of Evaluation of Mobile Wellness Apps for Use in a Clinical Setting	Sarita Pais (Whitireia Polytechnic & Auckland University of Technology, New Zealand); Dave Parry (Auckland University of Technology & School of Computing, New Zealand); Janet Rowan (Auckland District Health Board, New Zealand)
1570342014	Optical Fiber Based Ammonia Gas Sensor with Carbon Nanotubes Sensing Enhancement	Punithavathi Thirunavakkarasu (Universiti Kuala Lumpur, Malaysia); Ahmad Shukri bin Muhammad Noor, Mohd Hanif Yaacob and Ahmed Lateef Khalaf (Universiti Putra Malaysia, Malaysia); Siti Hajar Ab Aziz (Universiti Kuala Lumpur & British Malaysian Institute, Malaysia)
1570343472	Enhancing Reliability of Emergency Traffic in IEEE 802.15.6 Wireless Body Area Networks	Anil K Jacob (NIT Calicut, India); Lillykutty Jacob (National Institute of Technology Calicut, India)
1570343776	Automating Anxiety Detection using Respiratory Signal Analysis	Haritha H (Amrita University, India); Santhosh C Kumar (Amrita Vishwa Vidyapeetham, India)
1570344605	Integration of Assistive and Wearable Technology to Improve Communication, Social Interaction and Health Monitoring for Children with Autism Spectrum Disorder (ASD)	Fauzia Fazana and Abeer Alsadoon (Charles Sturt University, Australia); P. W.C. Prasad (Charles Sturt University Study Centre Sydney, Australia); Nectarios Costadopoulos (Charles Sturt University & Study Centre Sydney, Australia); Amr Elchouemi (Charles Sturt University Study Centre Sydney, Australia); Sasikumaran Sreedharan (King Khalid University, Saudi Arabia)
Manapuram 1		
Smart Waste Management		
Session Chair: Mr. Amarnath Raja, InApp, Trivandrum		
1570344210	Dynamic Vehicle Routing for Solid Waste Management	Sreelekshmi V (Amrita Vishwa Vidyapeetham, India); Jyothisha J Nair (Amrita University, India)
1570348992	Identifying Uncollected Garbage in Urban Areas using Crowdsourcing and Machine Learning	Jyotsna Prasad and Kushal Mehta (PES University, India); Nishant Bhattacharya (PES Institute of Technology, India); Kaala Lakshmi Sureshan, Subramaniam Kalambur and Dinkar Sitaram (PES University, India); Shubhendu Singh (Janaagraha, India)
1570349322	Creating smartness in people towards waste management	Jagruithi D Atada (B M S College of Engineering, India); Atheeth S (BMS College of Engineering, India); Samrat Sankhya (Indian Institute of Science, India); KishoreKumar Sharma O. (BMS College of Engineering, India)
1570350942	System Design for Solid Waste Mangement: A Case study on successful implementation at a community level	Harish Mohan (Amrita University, Amrita Vishwa Vidyapeetham & Ammachi Labs, India); Laura Goris (Amrita University, Amrita Vishwa Vidyapeetham, India); Rao R. Bhavani (Amrita Vishwa Vidyapeetham, India)
14.00 - 15.30		
Manappuram 2		
Smart Energy		
Session Chair: Dr. Lakshminarayana Merugu, Scientist 'H' & Associate Director DLRL (Retd.)		
1570344222	Solar & LED Technology for Energy Efficient Substation	Viral Kansara (L&T-Sargent & Lundy, India)
1570344265	Integration of Renewable Sources of Energy into Power Grid	Priyanka Swain, Jagadish S and N. S. Uma Mahesh Kandala (Tata Consulting Engineers Limited, India)
1570345440	A High Gain Step Up Z-source DC-DC Converter Feeding Multilevel Inverter	Rini Paul (Government Engineering College, Thrissur, India); Ramesh P (Indian Institute of Technology Bombay, India); Amar Dutt A (Govt. Engineering College Thrissur, India)
1570346068	Modified Loss of Life relations for IEEE Thermal model for ageing assessment of running transformers in Smart Grid frameworks	Arya Bhattacharya (Mahindra Ecole Centrale, India); Amrita George (BIT Mesra, India); Sayantan Hazra and Jayantlal Bhattacharya (Mahindra Ecole Centrale, India)
1570346362	MinPeak: An Intelligent Scheduler for Non-Preemptive Appliances in Smart Grid	Nilotpal Chakraborty, Arijit Mondal and Samrat Mondal (IIT Patna, India)
1570346628	Impact Analysis of Distributed Generation Integration on Distribution Network considering Smart Grid Scenario	Deepa Kumar (College of Engineering Trivandrum & Powergrid Corporation of India Ltd, India)
Raja Ravi Varma Hall		
Smart Mobility		
Session Chair: Dewan Md. Farid (United International University, Bangladesh)		
1570344458	VIRTUE: Video Surveillance for Rail-Road Traffic Safety at Unmanned Level Crossings	Pranjali Ghajbiye (Visvesvaraya National Institute of Technology, India); Cheggoju Naveen and Vishal Satpute (VNIT Nagpur, India)
1570347964	Design of High Performance Cluster based Map for Vehicle Tracking of public transport vehicles in Smart City	George Thomas, Alexander G and Sasi PM (Centre for Development of Advanced Computing (CDAC), India)
1570348270	Real-time moving object classification using DPMM for road traffic management in smart cities	Santhosh Kumaran (IIT Bhubaneswar, India); Debi Prosad Dogra (Indian Institute of Technology Bhubaneswar, India); Partha Roy (IIT Rookee, India)
1570348316	Pattern Mining from Historical Traffic Big Data	Ishteaque Alam, Mohammad Ahmed and Mohaiminul Alam (United International University, Bangladesh); João Ulisses (Faculty of Engineering of University of Porto, Portugal); Dewan Md. Farid (United International University, Bangladesh); Swakhar Shatabda (United International University, Bangladesh); Rosaldo Rossetti (Faculty of Engineering of University of Porto, Portugal)
1570348415	Implementation of IEEE 1609 WAVE/DSRC Stack in Linux	Vivek Nainwal (C-DAC, India); Palli Sowjanya (Centre for Development of Advanced Computing, India); Sunny Bezawada (Project Engineer, India); Venkata Sunnam (C-DAC, India)
1570348507	Direction Estimation of crowd flow in Surveillance Videos	Muhammed Anees, V and Santhosh Kumar G (Cochin University of Science and Technology, India)

Travancore Hall		
Smart Health		
Session Chair: Shunmugam Pandian, Indian Institute of Information Technology, Design & Manufacturing-Kancheepuram, India		
1570343972	Isolated Word Speech Recognition using Larynx Vibrations	Jishnudeep Kar (Indian Institute of Technology, Delhi, India); Abhijeet Chordia (Indian Institute of Technology Delhi, India)
1570344029	Human footstep detection using proximity compensation algorithm with accelerometer and time of flight sensor	Rosarium Pila and Saurabh Rawat (STMicroelectronics Pvt. Ltd., India)
1570344373	Design and Fabrication of a Smart Punching Bag with Micro Energy Generator	Shunmugam Pandian (Indian Institute of Information Technology, Design & Manufacturing-Kancheepuram, India); Noriko Ishibashi (Nagaoka Institute of Technology, Japan); Sa. K. Vishnoo Prathap (Indian Institute of Information Technology, Design and Manufacturing-Kancheepuram, India)
1570346423	Automated ECG analysis using Fourier Harmonic Phase	Deboleena Sadhukhan, Saurabh Pal and Madhuchhanda Mitra (University of Calcutta, India)
1570348650	Review of Quality of Service in the Mobile Patient Monitoring Systems	Pravin Pawar and Sagar Mohammad (Philips Research, India)
1570348930	Virtual Trainer with Real-Time Feedback using Kinect Sensor	Pradeep Kumar, Rajkumar Saini and Mahendra Yadava (Indian Institute of Technology Roorkee, India); Partha Roy (IIT Roorkee, India); Debi Prasad Dogra (Indian Institute of Technology Bhubaneswar, India); Balasubramanian R (IIT Roorkee, India)
16.00 - 17.00		
Manappuram 2		
Smart Energy		
Session Chair: Biju K., College of Engineering, Munnar, Kerala		
1570347907	Space Vector Direct Torque Control for Five-level Open-end winding Induction Motor Drive to suppress Harmonic Spikes	Vinod B r (College of Engineering Trivandrum, India); G Shiny (College of Engineering, Trivandrum, India); M R Baiju (College of Engineering Trivandrum, India)
1570348284	Simulation on performance of series and parallel connected Tandem Solar Cells-a comparison study	Fatima J (University of Kerala, India)
1570348418	Optimal Relay Coordination and Communication Based Protection for Microgrid	Stp Srinivas (IIT Madras, India)
1570348433	Solution Methods of Ill-Conditioned Power System State Estimation: a Comparative study	Hatim Abood (The University of Western Australia)
Raja Ravi Varma Hall		
Smart Mobility		
Session Chair: Mr.Amarnath Raja, InApp,Trivandrum		
1570348674	A design study on a proposed high speed train service in Western India:A synergistic dialogue of optimal speed and cabin comfort using CFD	Sat Ghosh (School of Mechanical Engineering, VIT University, Vellore & ICAS Associate, School of Earth and Environment, University of Leeds, India); Sameer Bharadwaj and Sagar Bharadwaj (VIT University, India)
1570348761	Automatic Dipper System Using Camera in Vehicles	Saksham Saxena, Samdesh Arora, Chanpreet Singh and Indu Sreedevi (Delhi Technological University, India); Bhavnesh Jain (Delhi Technological University Delhi, India)
1570348893	An Ontology-Driven Context Aware Framework for Smart Traffic Monitoring	Deepti Goel (IIT Delhi, India); Nisha Pahal (Indian Institute of Technology Delhi, India); Parul Jain (IIT Delhi, India); Santanu Chaudhury (Indian Institute of Technology, Delhi, India)
1570348927	Vision based Accident Vehicle Identification and Scene Investigation	Vipin Raj, Nithya Sree and Raj Madhavan (AMMACHI Labs, Amrita School of Engineering, Amritapuri, India)
Travancore Hall		
Smart Health		
Session Chair: Mr.Sasi P. M., Associate Director, CDAC, Trivandrum.		
1570348945	Neuro-phone: An assistive framework to operate Smartphone using EEG signals	Pradeep Kumar, Rajkumar Saini and Pawan Sahu (Indian Institute of Technology Roorkee, India); Partha Roy (IIT Roorkee, India); Debi Prasad Dogra (Indian Institute of Technology Bhubaneswar, India); Balasubramanian R (IIT Roorkee, India)
1570348967	A Step Towards Smart Health: A Pelvic Wearable Device for Gait Health Quantification	Madhu Kodappully (IIT Gandhinagar, India); Uttama Lahiri (Indian Institute of Technology Gandhinagar, India); Deepesh Kumar (IIT Gandhinagar,T, India)
1570348971	Surface Plasmon Resonance Biosensor In Healthcare Application	Nusrat Alim (American International University-Bangladesh, Bangladesh); Mohammad Nasir Uddin (American International University-Bangladesh & IEEE Executive Committee Bangladesh Section (EAC), Bangladesh)
1570349076	Use of Discrete Wavelet Transform Method for Detection and Localization of Tampering in a Digital Medical Image	Tushar Gadhia (Dhirubhai Ambani Institute of Information and Communication Technology, India); Anil Roy, Suman Mitra and Vinod Mall (DAIIC, India)
17.00 - 18.00		
Manappuram 2		
Smart Energy		
Session Chair: Dr. Bidyadhar Subudhi, NIT Rourkela, India		
1570348480	Analytical Model to Study the Impact of Ferroelectric Materials SBT/PZT on Elliptical Gate All Around Junctionless Transistor	Hema Mehta (University of Delhi South Campus, India); Harsupreet Kaur (University of Delhi, South Campus, India)
1570348488	Development and Performance Evaluation of Energy Efficient PEM Fuel Cell Electric Vehicle for Smart Cities	Sudarshan Chavan (University of Pune & College of Engineering Pune, India); Dhananjay Talange (Pune University & Govt College of Engg, India)
1570343609	Low Voltage Direct Current(LVDC) Nanogrid for Home Application	Sigi C Joseph (NIT, Calicut); Ashok S (NIT Calicut, Kerala, India); Dhanesh P Raghavan (Centre for Development of Advanced Computing, Govt. of India; CDAC, India)
1570348533	A New Grid Synchronization Scheme for a Three Phase PV system employing Kalman Filtering	Sudarshan Swain (Nation Institute of Technology Rourkela, India); Bidyadhar Subudhi (NITRKL, India)
Raja Ravi Varma Hall		
Smart Mobility & Smart Infrastructure		
Session Chair: Mr. R. Srinivasan, ICFOSS Kerala & Chair, Computer Society, Kerala Chapter		
1570348975	Spatio-temporal visualization of automotive sensor data - a conceptual and implementational framework	Patrick Voland (University of Potsdam, Germany)
1570348983	Intelligent Traffic Light Control for Congestion Management for Smart City Development	Vishu Gupta, Srikanth Konda and Rajesh Kumar (Malaviya National Institute of Technology, India); Bijaya Ketan Panigrahi (IIT Delhi, India)
1570348849	IoT Middleware for Smart City	Tintu Joseph, Roopesh Jenu, Ajmal Assis and Sajith Kumar (CDAC, India); Sasi PM and Alexander G (Centre for Development of Advanced Computing (CDAC), India)
1570348957	Smart Real-Time Meeting Room	M Saravanan (Ericsson Research India & Ericsson Global India Private Limited, India); Arindam Das (SRM University, India)
1570348970	Self-governing Workplace Ambience Controller	Jeshua Varun (Loyola-CAM College of Engineering and Technology, India); Siddharth Sankar, Silvia Noble and Inba Rexy (Anna University, India)

Travancore Hall		
Smart Health		
Session Chair: Dr. Rajashree Jain, Symbiosis Institute of Computer Studies and Research (SICSR), Pune, India		
1570349754	Ambulatory Fetal Heart Monitoring with QRS Detection Employing Independent Component Analysis	Sachin John (Indian Institute of Technology Kharagpur & Indian Air Force, India); Anirban Mukherjee (Indian Institute of Technology Kharagpur, India); Manish Goyal and Sweta Singh (All India Institute of Medical Sciences, India)
1570349771	Non-Wearable Sensor Based Approach to Monitor Primary Health Conditions	Ravindra Patil (Philips Research, India); Krishnamoorthy P (Senior Scientist, India)
1570350944	Virtual Colonoscopy: A Plausible Alternative to Conventional Colonoscopy	Rajesh Kumar and Pournami Chandran (Centre for Development of Advanced Computing, India); Jinu Joseph and Vidya Pv (CDAC, India); John Nj (Medical College, Trivandram, India)
1570351406	Higher Order Statistics of Bispectrum and MRP of ECoG Signals for Motor Imagery Tasks Classification	Celia Shahnaz (BUET, Bangladesh); Sudip Paul (Bangladesh University of Engineering and Technology & East Delta University, Bangladesh); Ishmam Zabir (University of California, Riverside, USA); Tanmoy Sarker (Bangladesh University of Engineering and Technology, Bangladesh); Shaikh Anowarul Fattah (BUET, Bangladesh)
Day 3 - 16 July 2017		
10.30 - 12.00		
Manappuram 2		
Smart Energy		
Session Chair: Dr. Bijuna Kunju, TKM College of Engineering, Kollam, Kerala		
1570348713	A Hopfield Neural Network based Reconfiguration Algorithm for Power Distribution Systems	Viresh S Patel (Mumbai University, India); Saikat Chakrabarti (Indian Institute of Technology Kanpur, India); S n Singh (IIT Kanpur, India)
1570348843	Distributed Energy Resources Optimization for Demand Response using MILP	Hemanth Singabhattu (Power Systems Division & Central Power Research Institute, Bangalore, India); Amit Jain (CPRI, India); Tulika Bhattacharjee (Central Power Research Institute, India)
1570348868	Real Time Energy Management and Bus Voltage Droop Control in Solar Powered Standalone DC Microgrid	Akhiya Sanal and Vivek Mohan (Amrita Vishwa Vidyapeetham, Amrita University, India); Sindhu M r (Amrita Vishwa Vidyapeetham, India)
1570348877	Battery Ultracapacitor Based DC Motor Drive for Electric Vehicles	Mahendra Chandra Joshi (National Institute of Technology Rourkela, India); Susovan Samanta and Gopalakrishna Srungavarapu (National Institute of Technology, Rourkela, India)
1570348921	Two-Stage Framework for Electric Vehicle Charging in Smart Distribution System	Srikanth Konda (Malaviya National Institute of Technology, India); Ashu Verma (IIT Delhi, India); Bijaya Panigrahi (IIT-D, India); Lokesh Panwar (MNIT, India)
1570348923	Real Implementation of Synchronous Boost Converter with Controller for Power Factor Correction	Anusha V (M S Ramaiah University of Applied Sciences, India)
Raja Ravi Varma Hall		
Smart Governance		
Session Chair: Sasi P M, Associate Director, CDAC, Trivandrum		
1570334923	Non-linear Autoregressive Neural Network Model for forecasting Indian Index of Industrial Production	Kedar Potdar (Watumull Institute of Electronics Engineering and Computer Technology, India); Rishab Kinnerkar (Iowa State University, USA)
1570344042	Anduyog: A Web-based Application for Relief and Casualty Monitoring and Early Warning System for Local Government Units in the Philippines	Ramon L. Rodriguez (National University & De La Salle University, Philippines); Elcid Serrano (De La Salle University & Mapua Institute of Technology, Philippines); Ariel Kelly Balan (Mapua Institute of Technology, Philippines)
1570344295	Improving Fire Service using Spatio-Temporal Analysis: Fire Incidents in Manila	Francis F. Balahadia (Laguna State Polytechnic University, Philippines); Arlene Trillanes (National University-Manila Philippines, Philippines)
1570348474	Modified Densely Connected Convolutional Network for Content Generation in Automatic Image Description Generation System	S R Sreela (Cochin University of Science and Technology, India); Sumam Mary Idicula (Cochin University, India)
1570348715	Analysis of the Smart Growth of Kochi City through Landscape Metrics	S Saritha (Rajagiri School of Engineering & Technology, India); Santhosh Kumar G (Cochin University of Science and Technology, India)
Travancore Hall		
Smart Communications		
Session Chair: Dr. Vivek A Bohara, Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi), India		
1570335636	Review on network technologies in intelligent Power System	Nagaballi Srinivas (VNIT Nagpur, India)
1570340890	CPW-OFDM (Cyclic Postfix Windowing OFDM) for the 5G New Radio Waveform	Changyoung An, Byeongjae Kim and Heung-Gyoon Ryu (Chungbuk National University, Korea)
1570342513	A Game-Theoretic Strategy for Pareto-Optimal Cooperation in Resource Constrained Vehicular Ad-Hoc Networks	Nitin Singh Rajput (Birla Institute of Technology and Science (BITS) Pilani); Rahul Banerjee (Birla Institute of Technology and Science (BITS) Pilani, India)
1570342696	Adaptation of Hybrid Beamformation for the Feasible mmWave 5G Mobile Communication System	Safal Sharma and Debasish Bhaskar (Sikkim Manipal University); Rabindranath Bera (Sikkim Manipal University, India)
1570343380	A Cooperative Spectrum Sharing Protocol for Cognitive Two-way AF Relaying System	Saloni Mittal (Indraprastha Institute of Technology, Delhi, India); Naveen Gupta (IIIT-DELHI, India); Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi), India); Daniel Benevides da Costa (Federal University of Ceara (UFC) & Area: Telecommunications, Brazil); Ugo Dias (University of Brasilia, Brazil)
1570347522	Effect of rainfall on Cellular Signal Strength	Sebin Sabu, Renimol S and Abhiram D (TKM College of Engineering, India)
Manapuram 1		
Smart Security		
Session Chair: Dr. Shrikrishna Khaparde, IIT Bombay, India		
1570348862	CETD: An Efficient Clustering Based Energy Theft Detection Technique in Smart Grid	Aditya Gupta, Nilotpal Chakraborty and Samrat Mondal (IIT Patna, India)
1570348980	An Efficient Approach for Trajectory Classification using FCM and SVM	Rajkumar Saini and Pradeep Kumar (Indian Institute of Technology Roorkee, India); Partha Roy (IIT Roorkee, India); Debi Prosad Dogra (Indian Institute of Technology Bhubaneswar, India)
1570349066	Localization of signatures in continuous Air writing	Santosh Behera (IIT Bhubaneswar, India); Debi Prosad Dogra (Indian Institute of Technology Bhubaneswar, India); Partha Roy (IIT Roorkee, India)
1570349194	Review of Cyber Attacks on Power System Operations	Kaustav Chatterjee and Padmini V (Indian Institute of Technology Bombay, India); Shrikrishna Khaparde (IIT Bombay, India)
1570349207	Finger Vein Biometric System with Type-2 Fuzzy Enhancement and Minutiae Matching	Rose Joseph and Devarasan Ezhilmaran (VIT University, India)
1570343868	Ranking Power System States based on Vulnerability to False Data Injection	Kaustav Chatterjee (Indian Institute of Technology Bombay, India); Shrikrishna Khaparde (IIT Bombay, India)

12.00 - 13.00		
Manappuram 2		
Smart Energy		
Session Chair: Dr. Bijuna Kunju, TKM College of Engineering, Kollam, Kerala		
1570348936	An Adaptive Transient Tracking Harmonic Detection method for Power Quality Improvement	Keerthy P and Maya P (Amrita Vishwa Vidyapeetham, Amrita University, India); Sindhu M r (Amrita Vishwa Vidyapeetham, India)
1570348950	Feasibility study and Analysis of Battery Energy Storage System and Network Reconfiguration in active distribution network	Roshni Anna Jacob (National Institute Of Technology Agartala, India); Aniruddha Bhattacharya (National Institute of Technology, Agartala, Tripura, India); Sharmista Sharma (National Institute of Technology Agartala, India)
1570348953	IPMSM for Hybrid Electric Vehicle using DSP based Three-level Diode Clamped Inverter	G Lakshmi (UNT University, Hyderabad & CVR College of Engineering, India)
1570348995	Design of a ZCS Full - Bridge DC DC Converter for PV based Electric Vehicle Fast Charging Station	Jayant Kumar Sahoo (National Institute of Technology Calicut, India); Abraham T Mathew (NIT Calicut, India)
Raja Ravi Varma Hall		
Smart Governance		
Session Chair: Dr. Suresh Nair, CTO, SFO Technologies, Kochi		
1570348880	Emergency services platform for smart cities	Jay Lohokare and Reshul Dani (College of Engineering Pune, India); Ameya Apte (College Of Engineering Pune, India); Rishab Sahni and Sumedh Sontakke (College of Engineering, Pune, India)
1570348968	Urban noise computing in a smart city	Prajakta Joglekar and Vrushali Kulkarni (Maharashtra Institute of Technology, India)
1570349143	Near real-time air pollution monitoring and analysis using cloud based GIS	Nilakshi Joshi and Sana Shaikh (Don Bosco Institute of Technology, India); Chinmay Gadgil (Don Bosco Institute of Technology); Mitesh Khare and Glendon Rodrigues (Don Bosco Institute of Technology, India)
1570349343	Optimization of School Network using Location-Allocation Analysis	Muhammad Alifi and Hashri Hayati (Bandung Institute of Technology, Indonesia); Suhono Harso (Indonesia)
Travancore Hall		
Smart Communications		
Session Chair: Dr. Rajlaxmi Chouhan, Indian Institute of Technology Jodhpur, India		
1570347800	Relay Location Optimization in Cognitive Full-duplex Relay Networks	Hena Thampy and Babu A v (National Institute of Technology Calicut, India)
1570348334	No-Reference Image quality Assessment using Gradient-based Structural Integrity and Latent Noise Estimation	Vineet Kumar (Indian Institute of Technology Jodhpur, India); Rajlaxmi Chouhan (Indian Institute of Technology Jodhpur)
1570348693	HAP: Hierarchical Attachment Process For Mobile Nodes In Nested Network Mobility	Arpita Bhattacharya (Netaji Subhas Engineering College, India); Sourav Das (RCC Institute of Information Technology, India); Avijit Gayen (Indian Institute of Technology, Patna, India); Nilotpal Chakraborty (IIT Patna, India)
1570348772	Enhancing the Performance of Routing Protocol in MANET by Predicting the Link Availability Through Belief Propagation	Preetha K g (Rajagiri School of Engineering Technology, India); A Unnikrishnan (NPOL India, India)
1570342032	Analysis of group mobility for opportunistic campus network	Cephas Pahla, Cp., Fungai Bhunu Shava and Hippolyte Muyingi (Namibia University of Science and Technology, Namibia)
Manapuram 1		
Smart Security		
Session Chair: Dr. Shrikrishna Khaparde, IIT Bombay, India		
1570348308	An Intelligent Fibonacci Approach to Image Steganography	Shreyank N Gowda (R V College of Engineering, India)
1570348476	Revocation of Misbehaving Vehicles during Data Dissemination among Connected Vehicles in VANET	Atanu Mondal (Ramakrishna Mission Vidyamandira, India); Sulata Mitra (Indian Institute of Engineering Science and Technology, India)
1570348665	Multi Image Retrieval for Kernel-based Automated Intruder Detection	Rakibun Muntaha, Fardin Shahrear, Kazi Lamiah Daraksha Karim Daraksha, KLDK, Afra Anika, Supriyo Ahmed and Tarem Ahmed (BRAC University, Bangladesh)
14.00 - 15.30		
Manappuram 2		
Smart Energy		
Session Chair: Ms. Sunitha Beevi, TKM College of Engineering, Kollam, Kerala		
1570349000	An Agent Based Approach for Efficient Energy Management of Microgrids	Balakrishnan Hariharan (Indian Institute of Technology, India); K K Singh Tomar (IIT Kanpur, India)
1570349295	Implementation of Solar Time based Sun Tracking Systems for Mobile Platforms and Smart Cities	Naman Khanduri, Arvind Kukreti and Neeraj Shah (DIT University, Dehradun, India)
1570349323	Random Node Sampling Approach for Energy Efficient Data Gathering in Wireless Sensor Networks	Ajay Yaduvanshi (Indian Institute of Technology, Hyderabad, India); Amarlingam Madapu (IIT HYDERABAD, India); P Rajalakshmi (Indian Institute of Technology Hyderabad, India)
Raja Ravi Varma Hall		
Smart Energy		
Session Chair: Dr. Sivaji Chakravorti, Director, NIT Calicut & Chair, IEEE India Council.		
1570349931	Analysis and Validation of Reactive Power Compensation by Transformerless Multilevel Inverter using SPWM and Modified SVPWM Strategies	Athira Raju (National Institute of Technology Calicut, India); Elizabeth Cheriyan (NIT Calicut, India); Rijil Ramchand (National Institute of Technology Calicut, India)
1570351263	Design of Linear Quadratic Regulator for SCIG based Wind farm to damp SSR Oscillations	Anusri Parol (Amrita School of Engineering, India); Kadannamanna Covilakam Sindhu Thampatty (Amrita Vishwa Vidyapeetham, Amrita University Coimbatore, India)
1570351701	Analysis and modeling of UPFC: A comparison between power injection model and voltage source	Parvathy S (Amrita School of Engineering, India); Kadannamanna Covilakam Sindhu Thampatty (Amrita Vishwa Vidyapeetham, Amrita University Coimbatore, India)
1570349334	IoT Enabled Smart and Secure Power Monitor	Akshay Ramesh Jadhav and P Rajalakshmi (Indian Institute of Technology Hyderabad, India)
1570349336	Smart Electricity Meter Data Analytics: A Brief Review	Savita Pawar (Walchand College of Engineering, India); Bashirahamed Momin (University of Kolhapur, India)
1570349339	Multi-objective approach for capacitor placement considering uncertainty using point estimate method	Kollu Ravindra (JNTU Kakinada, India); Kinjarapu Jayaram (Vignan Institute of Information Technology, India)
Travancore Hall		
Smart Communications		
Session Chair: Dr. Sameer S. M., National Institute of Technology Calicut		
1570348780	Utility-Based Resource Allocation for Underlay D2D Networks	Susan Dominic (National Institute of Technology, Calicut, India); Lillykutty Jacob (National Institute of Technology Calicut, India)
1570348946	Log-Based Method for Faster IoT Queries	Anubha Jain (Dhirubhai Ambani Institute of Information and Communication Technology, India); Trupti Padiya and Minal Bhise (DA-ICT, India)
1570349134	240 Gbit/s Bit Compressed Hybrid OTDM-WDM fiber optic communication System	Tadbirul Islam (American International University Bangladesh, Bangladesh); Mohammad Nasir Uddin (American International University-Bangladesh & IEEE Executive Committee Bangladesh Section (EAC), Bangladesh)
1570349286	Transmit Signal Characterization of Generalized Frequency Division Multiplexing	Maanasa Marti, Ishwarya Viswanathan and Hemapriya N (SSN College of Engineering, India); Nandita Lavani (SSN College of Engineering, Kalavakkam, India)
1570349305	Schedule Length Balancing for Aggregated Convergecast in Multiple Sinks Wireless Sensor Networks	Tejas Vasavada (DA-ICT, India); Sanjay Srivastava (Dhirubhai Ambani Institute of Information and Communication Technology, India)
1570349324	A low cost Smart Irrigation System using MQTT Protocol	Ravi Kishore Kodali (National Institute of Technology, Warangal, India); Samar Borade (NIT Warangal, India)
1570350018	An Algorithm for Distance-aware VM Allocation with Guaranteed Bandwidth	Nivin Regi (National Institute of Technology, Calicut, India); Shabeera T P and S D Madhu Kumar (National Institute of Technology Calicut, India)