

| S.No                        | #          | Title  | Authors with affiliation and country  |
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| <b>Smart Buildings</b>      |            |  |   |
| 1                           | 1570342303 | Optimal HVAC Scheduling Using Phase-Change Material as a Demand Response Resource  | Donald Azuatalam and Sleiman Mhanna (The University of Sydney, Australia); Archie Chapman (University of Sydney, USA); Gregor Verbic (The University of Sydney, Australia)  |
| 2                           | 1570343579 | Demand Response in Smart Buildings Through Time-Varying Priority of Household Appliances   | Arun S L and Aravind Raj A (National Institute of Technology Tiruchirappalli, India); Selvan M p (National Institute of Technology, Tiruchirappalli, India)   |
| 3                           | 1570343720 | Implementation of Net Zero Energy Building (NZEB) Prototype with Renewable Energy Integration  | Rushikesh Kongala (NIT GOA, India); C. Vvjayanthi (Indian Institute of Science, India)  |
| 4                           | 1570344462 | Segmentation of hand from cluttered backgrounds for hand geometry biometrics   | Akshay Bapat (Indian Institute of Technology Indore, India); Vivek Kanhangad (IIT Indore, India)  |
| 5                           | 1570348538 | Energy Budget Constrained Comfort Optimization for Smart Buildings   | Pradnya Gaonkar (International Institute of Information Technology-Bangalore & IITB, 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) |
| 6                           | 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)  |
| <b>Smart Communications</b> |            |  |   |
| 7                           | 1570335636 | Review on network technologies in intelligent Power System   | Nagaballi Srinivas (VNIT Nagpur, India)   |
| 8                           | 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)  |
| 9                           | 1570342032 | Analysis of group mobility for opportunistic campus network  | Cephas Pahlia, Cp., Fungai Bhunu Shava and Hippolyte Muyingi (Namibia University of Science and Technology, Namibia)  |
| 10                          | 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)   |
| 11                          | 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)   |
| 12                          | 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)         |
| 13                          | 1570343520 | High CO2 Zone Localization Using Urban Vehicular Ad Hoc Networks (UVANETS)   | Sourav Kumar Bhoi, Pabitra Mohan Khilar and Munesh Singh (National Institute of Technology, Rourkela, India); Rashmi Sahoo (PMEC (govt.), Berhampur, India); Rakesh Swain (VSSUT BURLA, India)  |
| 14                          | 1570344312 | Energy Efficient Wireless Sensor Network Assisted Spectrum Sensing for Cognitive Radio Network   | Sudha T (University of Calicut, India); Jayakrishna P s (APJ Abdul Kalam Technological University, India)   |
| 15                          | 1570347522 | Effect of rainfall on Cellular Signal Strength   | Sebin Sabu, Renimol S and Abhiram D (TKM College of Engineering, India)   |
| 16                          | 1570347800 | Relay Location Optimization in Cognitive Full-duplex Relay Networks  | Hena Thampy and Babu A v (National Institute of Technology Calicut, India)  |
| 17                          | 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)   |
| 18                          | 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)   |
| 19                          | 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)  |
| 20                          | 1570348779 | Implementation of Superframe Duration Scheduling algorithm for beacon collision avoidance  | Pradnya Ghare (Visvesvaraya National Institute of Technology); Supraja Koneru and Pooja Gupta (Visvesvaraya National Institute of Technology, India)  |
| 21                          | 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)  |
| 22                          | 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)  |
| 23                          | 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)  |
| 24                          | 1570349286 | Transmit Signal Characterization of Generalized Frequency Division Multiplexing  | Maanasa Marti, Ishwarya Viswanathan and Hemapriya N (SSN College of Engineering, India); Nandita Lavanis (SSN College of Engineering, Kalavakkam, India)  |
| 25                          | 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)   |
| 26                          | 1570349324 | A low cost Smart Irrigation System using MQTT Protocol   | Ravi Kishore Kodali (National Institute of Technology, Warangal, India)   |
| 27                          | 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)   |
| <b>Smart Education</b>      |            |  |   |
| 28                          | 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 (Charels 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)              |
| <b>Smart Energy</b>         |            |  |   |
| 29                          | 1570336915 | Optimum Sizing of Storage and Charging Strategy for Grid Connected Photo-voltaic System  | Sulabh Sachan (MNNIT & ALLAHABAD, India); Nand Kishor (MNNIT Allahabad, India)  |
| 30                          | 1570341562 | Droop Control in Low Voltage Islanded Microgrids for Sharing Nonlinear and Unbalanced Loads  | Blessy John and Arindam Ghosh (Curtin University, Australia); Firuz Zare (University of Queensland, Australia)  |
| 31                          | 1570342366 | analysis of modified load coil for IH geyser   | Tushar Patil (North Maharashtra University, India); Umesh Bhadade (SSBT College of Engineering & Technology, India)   |
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| 33                          | 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)   |

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| 34 | 1570343999 | Performance analysis of Smart device - STATCOM for grid application  | Rijesh A and Soumyabrata Chakraborty (Tata Consulting Engineers Limited, India)  |
| 35 | 1570344028 | Smart lighting for Smart cities  | Vijay Barve (Tata Consulting Engineers, India)   |
| 36 | 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 Collge of Eengineering, Kannur, India)   |
| 37 | 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)   |
| 38 | 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)                                    |
| 39 | 1570344222 | Solar & LED Technology for Energy Efficient Substation   | Viral Kansara (L&T-Sargent & Lundy, India)   |
| 40 | 1570344265 | Integration of Renewable Sources of Energy into Power Grid   | Priyanka Swain, Jagadish S and Uma Mahesh K Naga S (Tata Consulting Engineers Limited, India)  |
| 41 | 1570344455 | Risk Adjusted Stochastic Estimation of ATC in a Co-optimized Transmission-Distribution System  | Nimal Madhu, M (Vidya Academy of Science and Technology, THRISSUR, India); Vivek Mohan (Asian Institute of Technology, Thailand)   |
| 42 | 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)  |
| 43 | 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)   |
| 44 | 1570346362 | MinPeak: An Intelligent Scheduler for Non-Preemptive Appliances in Smart Grid  | Nilotpal Chakraborty, Arijit Mondal and Samrat Mondal (IIT Patna, India)   |
| 45 | 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)  |
| 46 | 1570346771 | A Novel Control Algorithm for DSTATCOM Based on Three-Phase Dual SO-SOGI-PLL under Non-Ideal Grid Voltage Conditions Including DC-Offset | Hareesh Yada (Jawaharlal Nehru Technological University, India)  |
| 47 | 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)  |
| 48 | 1570348041 | A Dual Second-Order SOGI based Control Algorithm for UPQC under Distorted Grid and Load Conditions                                       | Hareesh Yada (Jawaharlal Nehru Technological University, India)  |
| 49 | 1570348284 | Simulation on performance of series and parallel connected Tandem Solar Cells-a comparison study   | Fatima J (University of Kerala, India)   |
| 50 | 1570348418 | Optimal Relay Coordination and Communication Based Protection for Microgrid  | Stp Srinivas (IIT Madras, India)   |
| 51 | 1570348433 | Solution Methods of IIR-Conditioned Power System State Estimation: a Comparative study   | Hatim Abood (The University of Western Australia/ Australia & University of Diyala/ Iraq, Australia)   |
| 52 | 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)   |
| 53 | 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)  |
| 54 | 1570348531 | Use of Solar Energy for Green Building & Reduction in Electricity Bill of Residential Consumer   | Archana Talhar (Belge) (University of Nagpur, India); Sanjay Bodkhe (Shri Ramdeobaba College of Engineering & Management Nagpur, India)  |
| 55 | 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)  |
| 56 | 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)  |
| 57 | 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)                                 |
| 58 | 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)  |
| 59 | 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)  |
| 60 | 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)   |
| 61 | 1570348923 | Real Implementation of Synchronous Boost Converter with Controller for Power Factor Correction   | Anusha V (M S Ramaiah University of Applied Sciences, India)   |
| 62 | 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)  |
| 63 | 1570348950 | Feasibility study and Analysis of Battery Energy Storage System and Network Reconfiguration in active distribution network               | Roshni Jacob (National Institute Of Technology Agartala, India); Aniruddha Bhattacharya (National Institute of Technology, Agartala, Tripura, India); Sharmistha Sharma (National Institute of Technology Agartala, India) |
| 64 | 1570348953 | IPMSM for Hybrid Electric Vehicle using DSP based Three-level Diode Clamped Inverter   | G Lakshmi (JNT University, Hyderabad & CVR College of Engineering, India)  |
| 65 | 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)  |
| 66 | 1570349000 | An Agent Based Approach for Efficient Energy Management of Microgrids  | Balakrishnan Hariharan (Indian Institute of Technology, India)   |
| 67 | 1570349074 | A Smart Energy Management Framework for Distribution Systems with Perceptive Residential Consumers                                       | Sivanand Nanna, Nurul Amalina Binte Aziz and Dipti Srinivasan (National University of Singapore, Singapore)  |
| 68 | 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)   |
| 69 | 1570349296 | Congestion Management in Smartgrids using Virtual Power Plants as Flexible Resources   | Sivanand Nanna (National University of Singapore, Singapore); Min Junhua (National University of Singapore, Singapore); Dipti Srinivasan (National University of Singapore, Singapore)                                     |
| 70 | 1570349334 | IoT Enabled Smart and Secure Power Monitor   | Akshay Ramesh Jadhav and P Rajalakshmi (Indian Institute of Technology Hyderabad, India)   |
| 71 | 1570349336 | Smart Electricity Meter Data Analytics: A Brief Review   | Savita Pawar (Walchand College of Engineering, India); Bashirahmed Momin (University of Kolhapur, India)   |
| 72 | 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)   |
| 73 | 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)   |
| 74 | 1570351263 | Design of Linear Quadratic Regulator for SCIG based Wind farm to damp SSR Oscillations   | Anusri Parol (Amrita School of Engineering, India); Kadannamanna Covilakam Thampatty (NIT-Calicut, India)  |

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| 77                      | 1570341715 | Development of E-Government Portal for Optimizing Services to Laguneno: A Benchmarking Study   | Francis F. Balahadia (Laguna State Polytechnic University, Philippines)   |
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| 79                      | 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)   |
| 80                      | 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)   |
| 81                      | 1570344526 | A Participatory Sensing Framework for Smart Governance of Environment Pollution  | Al Amin Neaz Ahmed, H. M. Fazlul Haque, Abdur Rahman and Md Susam Ashraf (United International University, Bangladesh); Swakkar Shatabda (United International University, Bangladesh); Sanjay Saha and Dewan Md. Farid (United International University, Bangladesh)   |
| 82                      | 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)  |
| 83                      | 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)   |
| 84                      | 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)  |
| 85                      | 1570348968 | Urban noise computing in a smart city  | Prajakta Joglekar and Vrushali Kulkarni (Maharashtra Institute of Technology, India)  |
| 86                      | 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)  |
| 87                      | 1570349343 | Optimization of School Network using Location-Allocation Analysis  | Muhammad Alifi and Hashri Hayati (Bandung Institute of Technology, Indonesia); Suhono Harso (, Indonesia)   |
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| 90                      | 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)  |
| 91                      | 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)   |
| 92                      | 1570343776 | Automating Anxiety Detection using Respiratory Signal Analysis   | Haritha H (Amrita University, India); Santhosh C Kumar (Amrita Vishwa Vidyapeetham, India)  |
| 93                      | 1570343972 | Isolated Word Speech Recognition using Larynx Vibrations   | Jishnudeep Kar (Indian Institute of Technology, Delhi, India); Abhijeet Chordia (Indian Institute of Technology Delhi, India)   |
| 94                      | 1570344029 | Human footstep detection using proximity compensation algorithm with accelerometer and time of flight sensor   | Rosarium Pila and Saurabh Rawat (STMICROELECTRONICS PVT. LTD., India)   |
| 95                      | 1570344373 | Design and Fabrication of a Smart Punching Bag with Micro Energy Generator   | Shunmugham 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)   |
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| 98                      | 1570348134 | SmartFog: Fog Computing Framework for Enhanced Analytics in Wearable Internet of Things for Telehealth   | Debanjan Borthakur (University of Rhode Island, India); Harishchandra Dubey (University of Texas at Dallas, USA); Nicholas Constant (204 Coit Ave., USA); Kunal Mankodiya (University of Rhode Island, USA)   |
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| 101                     | 1570348813 | Personal Health Record Management System: System Design  | Saurav Gupta (Centre for Development of Advanced Computing, India)  |
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| 103                     | 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 Prosad Dogra (Indian Institute of Technology Bhubaneswar, India); Balasubramanian R (IIT Roorkee, India)  |
| 104                     | 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, India)  |
| 105                     | 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)   |

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| 106                         | 1570349076 | Use of Discrete Wavelet Transform Method for Detection and Localization of Tampering in a Digital Medical Image                            | Tushar Gadhya (Dhirubhai Ambani Institute of Information and Communication Technology, India); Anil Roy, Suman Mitra and Vinod Mall (DAICT, India)   |
| 107                         | 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)   |
| 108                         | 1570349771 | Non-Wearable Sensor Based Approach to Monitor Primary Health Conditions  | Ravindra Patil (Philips Research, India); Krishnamoorthy P (Senior Scientist, India)   |
| 109                         | 1570350944 | Virtual Colonoscopy: A Plausible Alternative to Conventional Colonoscopy   | Rajesh Kumar and Pournami Chandran (Centre for Development of Advanced Computing, India)   |
| 110                         | 1570351406 | Higher Order Statistics of Bispectrum and MRP of ECoG Signals for Motor Imagery Tasks Classification                                       | Celia Shahnaz (BUET, Bangladesh)   |
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| 113                         | 1570348957 | Smart Real-Time Meeting Room   | M Saravanan (Ericsson Research India & Ericsson Global India Private Limited, India); Arindam Das (SRM University, India)  |
| 114                         | 1570348970 | Self-governing Workplace Ambience Controller   | Jeshua Varun, Siddharth Sankar, Silvia Noble and Inba Rexy (Anna University, India)  |
| <b>Smart Mobility</b>       |            |  |  |
| 115                         | 1570332842 | Obstacle Detection and Classification using Deep Learning for Tracking in High-Speed Autonomous Driving                                    | Gowdham Prabhakar, P G (Indian Institute of Science & IITDM Kancheepuram, India); Sudha Natarajan (Tata Elxsi, India); Binsu Kailath (IITD&M Kancheepuram, India)  |
| 116                         | 1570340049 | Cardiac Arrhythmia Based Vehicle Control System  | Jithin Mandoth Veetil (ENGINEER, India)  |
| 117                         | 1570341151 | Advanced Traveler Information System using COCOMO and ECOMO  | Manish Chaturvedi (Pandit Deendayal Petroleum University, India); Sanjay Srivastava (Dhirubhai Ambani Institute of Information and Communication Technology, India)  |
| 118                         | 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)  |
| 119                         | 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)   |
| 120                         | 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)   |
| 121                         | 1570344053 | Smart Surveillance based on Video Summarization  | Sinnu Susan Thomas (IIT KANPUR & IIT KANPUR, India); Sumana Gupta (IIT, Kanpur - INDIA, India); Venkatesh K Subramanian (IIT Kanpur, India)  |
| 122                         | 1570344201 | Vehicle Tracking using Modified Fast Compressive Tracking Algorithm  | Lasitha Mekkayil and Hariharan Ramasangu (M. S. Ramaiah University of Applied Sciences, India)   |
| 123                         | 1570344203 | A Climate-Invariant Intelligent Real-Time System to Recognise and Report Road Accidents  | Sukanyathara J (APJ Abdul Kalam Technological University, India); Lalu Seban (National Institute of Technology Silchar, Assam, India)  |
| 124                         | 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)   |
| 125                         | 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)  |
| 126                         | 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)  |
| 127                         | 1570348270 | Real-time moving object classification using DPMM for road traffic management in smart cities  | Santhosh Kumaran (IIT Bhubaneswar, India); Debi Prasad Dogra (Indian Institute of Technology Bhubaneswar, India); Partha Roy (IIT Rookee, India)   |
| 128                         | 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); Swakkhar Shatabda (United International University, Bangladesh); Rosaldo Rossetti (Faculty of Engineering of University of Porto, Portugal) |
| 129                         | 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)  |
| 130                         | 1570348507 | Direction Estimation of crowd flow in Surveillance Videos  | Muhammed Anees, V and Santhosh Kumar G (Cochin University of Science and Technology, India)  |
| 131                         | 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)  |
| 132                         | 1570348761 | Automatic Dipper System Using Camera in Vehicles   | Saksham Saxena, Samdish Arora, Chanpreet Singh and Indu Sreedevi (Delhi Technological University, India); Bhavnesh Jain (Delhi Technological University Delhi, India)  |
| 133                         | 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)   |
| 134                         | 1570348927 | Vision based Accident Vehicle Identification and Scene Investigation   | Vipin Raj, Nithya Sree and Raj Madhavan (AMMACHI Labs, Amrita School of Engineering, Amritapuri, India)  |
| 135                         | 1570348975 | Spatio-temporal visualization of automotive sensor data - a conceptual and implementational framework                                      | Patrick Voland (University of Potsdam, Germany)  |
| 136                         | 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)   |
| 137                         | 1570349275 | Detection & Recognition of Traffic Signs Using SVM & OCR   | Anu George (R I T Kottayam, Kerala, India); Jisha Michael (APJ Abdul Kalam Technological University, India)  |
| <b>Smart Security</b>       |            |  |  |
| 138                         | 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)  |
| 139                         | 1570346336 | TRUST BASED USER AUTHORIZATION IN SOCIAL CLOUD USING TRUST NETWORK   | Stephy Susan (Amrita School of Engineering, India); Greeshma Sarath (Amrita Vishwa Vidyapeetham, India)  |
| 140                         | 1570348308 | An Intelligent Fibonacci Approach to Image Steganography   | Shreyank N Gowda (R V College of Engineering, India)   |

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| 141                           | 1570348476 | Revocation of Misbehaving Vehicles during Data Dissemination among Connected Vehicles in VANET          | Atanu Mondal (Camelia Institute of Technology, India); Sulata Mitra (Indian Institute of Engineering Science and Technology, India)   |
| 142                           | 1570348665 | Multi Image Retrieval for Kernel-based Automated Intruder Detection                                     | Rakibun Muntaha, Fardin Shahrear, Kazi Lamiyah Daraksha Karim Daraksha, KLDK, Afra Anika, Supriyo Ahmed and Tarem Ahmed (BRAC University, Bangladesh)   |
| 143                           | 1570348862 | CETD: An Efficient Clustering Based Energy Theft Detection Technique in Smart Grid                      | Aditya Gupta, Nilotpal Chakraborty and Samrat Mondal (IIT Patna, India)   |
| 144                           | 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)  |
| 145                           | 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)   |
| 146                           | 1570349118 | Noise Resilient Compressed Domain Video Watermarking using INPAC  | Sneha Kadu, Saiyma Fatima Raza, Cheggoju Naveen and Vishal Satpute (VNIT Nagpur, India)   |
| 147                           | 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)   |
| 148                           | 1570349207 | Finger Vein Biometric System with Type-2 Fuzzy Enhancement and Minutiae Matching                        | Rose Joseph and Devarasan Ezhilmaran (VIT University, India)  |
| 149                           | 1570350506 | Performance Evaluation of KCF based Trackers using VOT Dataset  | Michael George (Cochin University of Science and Technology); Babita R. Jose (Cochin University of Science and Technology, India)   |
| <b>Smart Waste Management</b> |            |   |   |
| 150                           | 1570344210 | Capacitated K-Means with Optimized Vehicle Routing for Effective Solid Waste Pickup                     | Sreelekshmi V (Amrita Vishwa Vidyapeetham, India)   |
| 151                           | 1570348992 | Tracking and 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 and Subramaniam Kalambur (PES University, India); Dinkar Sitaram (Pesit, India); Shubhendu Singh (Janaagraha, India) |
| 152                           | 1570349322 | Creating smartness in people towards waste management   | Jagruthi Atada (B M S College of Engineering, India); Atheeth Prasad (BMS College of Engineering, India); Samrat Sankhya (Indian Institute of Science, India); Kishorekumar Sharma O. (BMS College of Engineering, India)                                       |
| 153                           | 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)  |
| <b>Smart Water Management</b> |            |   |   |
| 154                           | 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 Gadagkar (College of Engineering, Pune, India); Darshan Shaha (College of Engineering Pune & Shivajinagar Pune, India)  |
| 155                           | 1570349239 | A Neuro-Fuzzy Approach for Domestic Water Usage Prediction  | Jithish J and Sriram Sankaran (Amrita University, India)  |
| 156                           | 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)  |
| 157                           | 1570349317 | Smart Waste Water Treatment   | Ravi Kishore Kodali (National Institute of Technology, Warangal, India)   |
| 158                           | 1570349344 | IOT-Based Smart Automated Irrigation System, Nutrient Detection and Disease Analysis                    | Amogh Rau and Jairam Sankar (Rajagiri School Of Engineering and Technology, India)  |