

# **2019 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS 2019)**

**Goa, India  
16 – 19 December 2019**

**Pages 1-492**



**IEEE Catalog Number: CFP1969D-POD  
ISBN: 978-1-7281-3716-2**

**Copyright © 2019 by the Institute of Electrical and Electronics Engineers, Inc.  
All Rights Reserved**

*Copyright and Reprint Permissions:* Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

***\*\*\* This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP1969D-POD
ISBN (Print-On-Demand):	978-1-7281-3716-2
ISBN (Online):	978-1-7281-3715-5
ISSN:	2153-1676

**Additional Copies of This Publication Are Available From:**

Curran Associates, Inc  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: (845) 758-0400  
Fax: (845) 758-2633  
E-mail: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

CURRAN ASSOCIATES INC.  
**proceedings**  
.com

## Index

Pg.	Paper ID	Title	Track	Authors with affiliation and country
1	1570561952	Machine Learning Techniques for Channel Estimation in Free Space Optical Communication Systems	Regular Papers	Priyanshu Mishra (Indian Institute of Technology Delhi, India); Sonali Garg (IIT Delhi, India); Abhishek Dixit (Indian Institute of Technology Delhi & IBBT, India); V K Jain (IIT Delhi, India)
7	1570562924	A Low Overhead Frame Configuration for Improved Preamble Based Channel Estimation in FBMC-OQAM	Regular Papers	Vibhutesh Kumar Singh (University College Dublin, Ireland); Nidhi Upadhyay (Gautam Buddha University, India); Naveen Gupta (BITS Pilani Goa, India)
13	1570564010	An Evaluation of the Proportional Fair Scheduler in an Physically Deployed LTE-A Network	Regular Papers	Haijun Gao, Japjot Bawa and Raman Paranjape (University of Regina, Canada)
19	1570564091	Video-based Real-time Intrusion Detection System using Deep-Learning for Smart City Applications	Regular Papers	Rashmiranjan Nayak and Mohini Mohan Behera (National Institute of Technology Rourkela, India); Umesh C. Pati (National Institute of Technology, Rourkela, India); Santos Ku Das (National Institute of Technology Rourkela, India)
25	1570565356	Development of odd weight code construction for KS code with Ex-OR detection for SAC-OCDMA system	Regular Papers	Soma Kumawat (BSDU & Jaipur, India); Ravi Kumar Maddila (Malaviya National Institute of Technology Jaipur, India)
34	1570566133	Learning Based CoMP Clustering for URLLC in Millimeter wave 5G networks with Blockages	Regular Papers	Jihās Khan and Lillykutty Jacob (National Institute of Technology Calicut, India)

44	1570566444	Link Adaptation Algorithms for Free-Space Optical Communication Systems	Regular Papers	Sayed Hasan Hariq (Istanbul University - Cerrahpasa, Turkey); Niyazi Odabasioglu (Currently No Affiliation, Turkey)
49	1570566963	A Cross Entropy Minimization based Beam Selection for Time-Variant mmWave BeamSpace MU-MIMO Communication System	Regular Papers	Rahul Pal (IIT(BHU), Varanasi, India); Kishor Prabhakar Sarawadekar (Indian Institute of Technology, India)
54	1570567012	Design and implementation of frequency reconfigurable antenna for wireless applications	Regular Papers	Meghraj Nana Pawar (College of Engineering Pune & SPPU Pune, India); Deeplaxmi V Niture (College of Engineering Pune, India)
60	1570567063	A Neural Network based NIDS framework for intrusion detection in contemporary network traffic	Regular Papers	Basant Subba (National Institute of Technology Hamirpur, India)
70	1570567469	Wideband mmWave Massive MIMO Channel Estimation Using Stagewise Weak Conjugate Gradient Pursuit	Regular Papers	Yaseen Aiman Mohammed and Hatem Hatif Abbas (Al-Nahrain University, Iraq)
79	1570568210	Vector-Valued KLMS based Multiple Target Range and Velocity Estimation using IEEE 802.11p Waveform for Autonomous Vehicle	Regular Papers	Uday Singh (Indian Institute of Technology Indore, India); Rangeet Mitra (ETS Montreal, Canada); Vimal Bhatia (Indian Institute of Technology Indore, India); Amit Mishra (University of Cape Town, South Africa)
85	1570568293	Volterra-DFE based Nonlinear Equalizer for Diffusion based Molecular Communications	Regular Papers	Mahendra Singh Thakur, Sandesh Jain and Vimal Bhatia (Indian Institute of Technology Indore, India)
90	1570568301	Low Complexity Kernel-MSER based Equalizer for Crosstalk Mitigation in Multicore Fiber Communication	Regular Papers	Sandesh Jain and Anuj Agrawal (Indian Institute of Technology Indore, India); Rangeet Mitra (ETS Montreal, Canada); Vimal Bhatia (Indian Institute of Technology Indore, India); Shashi Prakash (Devi Ahilya University, India)

96	1570568565	Design of Flexible and Dual Wideband Antenna for Compact Wireless Devices	Regular Papers	Amit Baran Dey (NIT SILCHAR & CACHAR, India); Wasim Arif (National Institute Of Technology Silchar, India)
102	1570568778	An Optimized Task Placement in Computational Offloading for Fog-Cloud Computing Networks	Regular Papers	Indranil Sarkar and Sanjay Kumar (NIT Raipur, India); Mithun Mukherjee (Guangdong University of Petrochemical Technology, China)
107	1570569012	Multi-Class Delay Sensitive Medical Packet Scheduling in Inter-WBAN Communication	Regular Papers	Emy George (National Institute Of Technology, Calicut, India); Lillykutty Jacob (National Institute of Technology Calicut, India)
112	1570569217	Time Allocation and Scheduling in Energy Harvesting Wireless Networks	Regular Papers	Kshitija Dolas and Aditya Trivedi (ABV-Indian Institute of Information Technology and Management Gwalior, India)
118	1570569263	Node-to-Node Communication and Mobility Management Scheme for 5G Fog Networks	Regular Papers	Sanjay Kumar Biswash (NIIT University, India)
124	1570569371	Correlation Analysis of Multimodal Sensor Data in Environmental Sensor Networks	Regular Papers	Rajesh G (National Institute of Technology Karnataka, India); Ashvini Chaturvedi (NITK Surathkal, India)
130	1570569379	Optimized Link Utilization Based Approach for Traffic Engineering in SDWSN	Regular Papers	Rohit Kumar (DSPM IIIT Naya Raipur, India); Venkanna U. (Dr Shyama Prasad Mukherjee International Institute of Information Technology, India); Vivek Tiwari (IIIT Naya Raipur, India)
136	1570569590	SHPI: Smart Healthcare System for Patients in ICU using IoT	Regular Papers	Bhaskara Santhosh Egala (SRM University, Andhra Pradesh Amravati, India); Priyanka S and Ashok Kumar Pradhan (SRM University, Andhra Pradesh, India)
142	1570569607	Freshness Management of Cache Content in Information-Centric Networking	Regular Papers	Sanjay Kumar Biswash and Supratik Banerjee (NIIT University, India)

148	1570569613	Finding Practicable Nesting Level in Multi-level Nested Mobile Networks	Regular Papers	Palash Kundu (Jadavpur University, India); Debashis Saha (Indian Institute of Management (IIM)-Calcutta, India); Manoj Kumar Rana and Bhaskar Sardar (Jadavpur University, India)
171	1570569832	Secured and Lightweight Communication Scheme on UDP for Low End IoT Devices	Regular Papers	Rohan Nathi (S N System Pvt Ltd, India)
183	1570569884	Design and implementation of a long-range low-power wake-up radio and customized DC-MAC protocol for LoRaWAN	Regular Papers	Anders Frøyttlog, Magne Haglund, Linga Reddy Cenkeramaddi and Baltasar Beferull-Lozano (University of Agder, Norway)
188	1570570125	Modeling and Performance Analysis of FFR-aided Dense Cellular Network in 3-D Environment	Regular Papers	Deepak Saluja and Suman Kumar (IIT Ropar, India)
194	1570570540	Integrated Framework for Farmer Centric Agriculture Applications Using IoT Architectures	Regular Papers	Raja VaraPrasad (Indian Institute of Information Technology (IIIT) Sricity, India); Charitha Ramireddy (Indian Institute of Information Technology, India); Peddi Kalpana (BTech, India)
201	1570572062	Enhancement of IEEE802.11p-based Channel Access Scheme for Internet of Vehicle (IoV)	Regular Papers	A Justin Gopinath and B Nithya (National Institute of Technology, India)
207	1570572236	Downlink Coverage Analysis of 3-D Ultra Dense Networks with Realistic Propagation Conditions	Regular Papers	Aritra Chatterjee (IIT KHARAGPUR, India); Suvra Sekhar Das (Indian Institute of Technology Kharagpur, India)
217	1570572899	LandLedger: Blockchain-powered Land Property Administration System	Regular Papers	Nidhi Gupta (DA-IICT, India); Manik Lal Das (DAIICT, India); Sukumar Nandi (Indian Institute of Technology Guwahati, India)
223	1570573045	Smart Traffic Management System Based on Software Defined Internet of Things Architecture	Regular Papers	Pranav Godway (SRI SATHYA SAI INSTITUTE OF HIGHER LEARNING, India); Gowrishankar R (Sri Sathya Sai Institute of

				Higher Learning, India); Vikram Seshasai (Principal Engineer, India); Venkata Sai Surya Laxman Rao Bellala (Sri Satya Sai Institute of Higher Learning, India); Sai Kiran Kumar Reddy Y, Siva Sankara Sai Sanagapati and Avinash B V (Sri Sathya Sai Institute of Higher Learning, India)
228	1570573196	AISS for Road Anomaly Detection using WSN-Based Distributed Strategy	Regular Papers	Goutam Kumar Sahoo (National Institute of Technology Rourkela, India); Saurav Gupta (VR Siddhartha Engineering College, Vijayawada, India); Poonam Singh (National Institute Of Technology, Rourkela, India); Santos Ku Das (National Institute of Technology Rourkela, India)
240	1570573340	An Efficient Routing Strategy for Information Centric Networks	Regular Papers	Krishna Delvadia (MEFGI & Gujarat Technological University, India); Nitul Dutta (Marwadi University, India); Gheorghita Ghinea (Brunel University, United Kingdom (Great Britain))
246	1570573363	Weighted Higher Order Detector for Diffusion based Molecular Communications	Regular Papers	Mahendra Singh Thakur (Indian Institute of Technology Indore, India); Sanjeev Sharma (IIT GUWAHATI, India); Vimal Bhatia (Indian Institute of Technology Indore, India)
251	1570573380	Determination of Participating Nodes in Opportunistic Networks for VANET	Regular Papers	Jeevan B Ravishankar and Sarasvathi V (PES University, India); Tharmaraj Charlet Jeanita (RMK Engineering College, India)
265	1570573736	Phase-noise Impact on the Performance of mmWave-RADARs	Regular Papers	Henning Idsøe (Norway & University of Agder, Norway); Linga Reddy Cenkeramaddi and Baltasar Beferull-Lozano (University of Agder, Norway); Soumya

				J (BITS Pilani, Hyderabad Campus & BITS Pilani, Hyderabad Campus, India)
277	1570574016	A Novel Key Generating Scheme of Automatic Variable Key	Regular Papers	Subhasish Banerjee (National Institute of Technology, Arunachal Pradesh, India)
288	1570574186	Flow Allocation in Industrial Intent-based Networks	Regular Papers	Barun Kumar Saha (ABB Global Industries and Services Private Limited, India); Luca Haab and Lukasz Podleski (ABB Schweiz AG, Switzerland)
294	1570574204	A Low-cost Real-time IoT based Air Pollution Monitoring using LoRa	Regular Papers	Supongmen Walling and Jayasree Sengupta (Indian Institute of Engineering Science and Technology, India); Sipra DasBit (Indian Institute of Engineering Science and Technology, Shibpur, India)
300	1570574231	An approach to detect Travel Patterns using Smartphone Sensing	Regular Papers	Asif Iqbal Middy, Devroop Kar and Sarbani Roy (Jadavpur University, India)
306	1570574299	Hardware Implementation of Automatic Modulation Classification with Deep Learning	Regular Papers	Satish Kumar (International Institute of Information Technology- Naya Raipur, India); Anurag Singh (IIT Guwahati, India); Rajarshi Mahapatra (IIIT Naya Raipur, India)
312	1570574336	Optimal path planning for UAV using NSGA-II based metaheuristic for sensor data gathering application in Wireless Sensor Networks	Regular Papers	Govind P. Gupta (National Institute of Technology, Raipur, India); Vrajesh Chawara and Seema Dewangan (National Institute of Technology Raipur, India)
323	1570574470	IoT Blockchain Solution for Air Quality Monitoring in SmartCities	Regular Papers	Shajulin Benedict (Indian Institute of Information Technology Kottayam, India & Earlier - TUM-Germany, Germany); Rumaise P (Indian Institute of Information Technology Kottayam, India); Jaspreet Kaur (Internee, IIITKottayam, India)



329	1570574471	Deep Learning Based Resource Allocation For Auto-Scaling VNFs	Regular Papers	Yashwant Singh Patel, Deepak Verma and Rajiv Misra (Indian Institute of Technology Patna, India)
335	1570574492	Optimization of LED Semi-Angle in Multipath Indoor Visible Light Communication Links	Regular Papers	Rishu Raj (Indian Institute of Technology Delhi, India); Sonu Jaiswal (Indian Institute of Technology, India); Abhishek Dixit (Indian Institute of Technology Delhi & IBBT, India)
341	1570574505	Improving Efficiency of Optical Camera Communication using Dynamic Rate Adaptation	Regular Papers	Subhas Chandra Mondal (Wireless & Wipro Technologies, India); Shailesh Prabhu (Wipro, India)
352	1570574555	Performance of Battery-Assisted Energy Harvesting DF Relay over Nakagami-m Channels	Regular Papers	Bhawna Kamra (Indian Institute of Technology Delhi, Bharti School of Telecom. and Mang. & MediaTek, India); Sudhakar Modem (Indian Institute Of Technology, Jammu, India); Shankar Prakriya (Indian Institute of Technology, Delhi, India)
362	1570574579	Physical Layer Security of MRC in Fisher- Snedecor F Fading Channels	Regular Papers	Rupender Singh (Indian Institute of Technology Roorkee, India); Meenakshi Rawat (Indian Institute of Technology Roorkee, India)
367	1570574613	Resource Scheduling of Workflow Tasks in Cloud Environment	Regular Papers	Kamalesh Karmakar, Rajib K Das and Sunirmal Khatua (University of Calcutta, India)
373	1570574621	Smartphone-based drowsiness detection system for drivers in real-time	Regular Papers	Iman Chatterjee (University of California, Davis & Jadavpur University, USA); Sarbani Roy (Jadavpur University, India)
383	1570574704	LORD: LOW Rate DDoS Attack Detection and Mitigation Using Lightweight Distributed Packet Inspection Agent in IoT Ecosystem	Regular Papers	Pradeepkumar Bhale (IIT Guwahati, India); Santosh Biswas (IIT Bhilai, India); Sukumar Nandi (Indian Institute of Technology Guwahati, India)
389	1570574759	Predation Blocking Strategy in Presence of	Regular Papers	Asif Ahmed Sardar (Indian Institute of Technology, Kharagpur, India); Washim

		Fraudulent Incumbent Service Provider		Uddin Mondal and Goutam Das (IIT Kharagpur, India)
394	1570574777	Preserving Users' Privacy for Location-Based Services	Regular Papers	Pranay Agarwal (Indian Institute of Technology, Hyderabad, India); Abhinav Kumar (Indian Institute of Technology Hyderabad, India); Rie Yamaguchi (The University of Tokyo, Japan)
400	1570574786	Cluster-based Random Access Scheme for 5G URLLC	Regular Papers	Paul Orim, Neco Ventura and Joyce Mwangama (University of Cape Town, South Africa)
406	1570574789	Community-Aware Pricing Game for Utility Maximization in 5G Heterogeneous Networks	Regular Papers	Stephen Ekwe and Neco Ventura (University of Cape Town, South Africa)
412	1570574791	Optimal Power Operation of Energy Detector for Random Signals in Gaussian Noise	Regular Papers	Venkatareddy Akumalla (Indian Institute of Technology Hyderabad, India)
418	1570574801	Cooperative Communication in Hybrid User Scenario incorporating Backscattering and Energy Harvesting	Regular Papers	Shivam Gujral and Siddhartha Sarma (Indian Institute of Technology Mandi, India)
424	1570574812	Light-weight, Real-time Internet Traffic Classification	Regular Papers	Zilmarij Iqbal, Rahila Rahim and Iqra Altaf Gillani (National Institute of Technology, India)
430	1570574897	Secure Device Identifiers and Device Enrollment in Industrial Control System	Regular Papers	Mini TT (ABB, India)
435	1570575024	Trust and Delay based Routing for VANETs	Regular Papers	Mahabaleshwar S. Kakkasageri (Basaveshwar Engineering College, Bagalkot, India); Mamata Sataraddi (Basaveshwar Engineering College (Autonomous), Bagalkot, Karnataka, India)
441	1570575034	Connectivity and Delay Aware Reliable Routing in Vehicular Ad hoc Networks	Regular Papers	Mahabaleshwar S. Kakkasageri (Basaveshwar Engineering College, Bagalkot, India); Mamata Sataraddi (Basaveshwar Engineering College

				(Autonomous), Bagalkot, Karnataka, India)
452	1570576358	Scaled Selection Combining for SSK in Decode and Forward Cooperative Relaying	Regular Papers	Ananth A (Indian Institute of Technology Madras, India); Palani Maheswaran (Indian Institute of Technology - Madras, India); Mandha Damodaran Selvaraj (Indian Institute of Information Technology, Design and Manufacturing, India)
458	1570577749	Re-synchronization in a Synchronized IEEE 802.15.4 Cluster-tree network	Regular Papers	Nikumani Choudhury (IIT Guwahati, India); Rakesh Matam (Indian Institute of Information Technology Guwahati, India); Mithun Mukherjee (Guangdong University of Petrochemical Technology, China); Jaime Lloret (Universitat Politecnica de Valencia, Spain)
464	1570578102	Performance Study of mmWave BeamSpace MU-MIMO-NOMA Communication System	Regular Papers	Rahul Pal (IIT(BHU), Varanasi, India); Kishor Prabhakar Sarawadekar (Indian Institute of Technology, India)
470	1570579328	Fuzzy Rough Set based Social IoT Recommender System	Regular Papers	Amit Dua (Birla Institute of Technology and Science (BITS) Pilani, India); Prateek Sharma (BITS Pilani, India); Kunal Kumar (Bits Pilani, India); Neeraj Kumar (Thapar University Patiala, India)
476	1570579359	Deep Learning Architectures for Modeling Communication Systems	Regular Papers	Dibyadip Chatterjee (Jadavpur University & Samsung Research Institute Bangalore, India); Harsh Jaiswal (Bits Pilani, India); Adarsh Honakamble (IIT KANPUR, India); Konchady Gautam Shenoy (Indian Institute of Science (IISC), India)
487	1570579597	A Novel Hybrid FSO/mmWave/RF System Design And Analysis For	Regular Papers	Swaminathan K and Ashish Saini (BITS Pilani, Rajasthan, India); B. Sainath (BITS Pilani, India)

		Next Generation Wireless Communication		
500	1570579989	Ergodic Capacity Analysis of Device-to-Device MIMO Relay System with Imperfect CSI	Regular Papers	Parvez Shaik (Indian Institute of Technology Indore, India); Praveen Kumar Singya (Indian Institute of Technology, Indore, India); Vimal Bhatia (Indian Institute of Technology Indore, India)
506	1570580230	DF Cooperative-NOMA Scheme in Presence of SIC Errors for Ubiquitous Coverage	Regular Papers	Sandhya Soni, Monika Jain and Divyang Rawal (LNMIIT, India); Nikhil Sharma (The LNM Institute of Information Technology, Jaipur, India)
512	1570580301	ASER Analysis of Cross QAM for TAS/MRC-MIMO Cooperative Relay System with Imperfect CSI	Regular Papers	Parvez Shaik (Indian Institute of Technology Indore, India); Praveen Kumar Singya (Indian Institute of Technology, Indore, India); Vimal Bhatia (Indian Institute of Technology Indore, India); Nagendra Kumar (National Institute of Technology Jamshedpur, India)
519	1570580336	Mitigation of security attacks in the SDN data plane using P4-enabled switches	Regular Papers	Niranjhana Narayanan (Indian Institute of Technology Madras, India); Ganesh Chennimalai Sankaran (IIT Madras, India); Krishna M. Sivalingam (Indian Institute of Technology Madras, India)
525	1570580649	OASIS: A Framework for Enhanced Live Video Streaming over Integrated LTE Wi-Fi Networks	Regular Papers	Tarun Patidar (Indian Institute of Technology, Hyderabad, India); Thomas Valerrian Pasca Santhappan (Qualcomm Research, USA); Bheemarjuna Reddy Tamma (IIT Hyderabad, India)
531	1570580741	Preventing data tampering in IoT networks	Regular Papers	Rajesh Kumar Shrivastava, Sanket Mishra, Archana Emmimath and Chittaranjan Hota (Birla Institute of Technology & Science,

				Pilani, Hyderabad Campus, India)
537	1570580750	Cache Management for Large Data Transfers in Named Data Networking using SDN	Regular Papers	Mohammad Alhowaidi, Deepak Nadig and Byrav Ramamurthy (University of Nebraska-Lincoln, USA)
549	1570580924	Tradeoff Between Performance and Energy-Efficiency in DRX Mechanism in LTE-A Networks	Regular Papers	Dharmaraja Selvamuthu, Rishabh Raj, Kishan Sahu and Anisha Aggarwal (IIT Delhi, India)
564	1570581068	Capacity Benefits of Operation Over C+L Band Elastic Optical Network in the Indian Network Scenario	Regular Papers	Abhijit Mitra (IIIT-Delhi, India); Daniel Semrau (University College London, United Kingdom (Great Britain)); Nishant Gahlawat (IIIT Delhi, India); Aniket Pradhan (Indraprastha Institute of Information Technology - Delhi, India); Shreeparna Dey (IIIT Delhi, India); Anand Srivastava (Indraprastha Institute of Information Technology Delhi, India); Polina Bayvel (University College London, United Kingdom (Great Britain)); Andrew Lord (British Telecom, United Kingdom (Great Britain))
570	1570581209	ADC Bit Allocation for massive MIMO using modified dynamic programming	Regular Papers	Fnu I. Zakir Ahmed (University of California Santa Cruz, USA); Hamid Sadjadpour (University of California, Santa Cruz, USA); Shahram Yousefi (Queen's University, Canada)
576	1570581215	Required Delay-based Network Sub-Slices Resource Optimization for 5G Radio Access Network	Regular Papers	Sharvari Ravindran and Saptarshi Chaudhuri (International Institute of Information Technology, India); Jyotsna Bapat (IIIT Bangalore, India); Debabrata Das (International Institute of Information Technology - Bangalore, India)

582	1570581235	Fading-Averaged Symbol Error Probability Analysis of Millimeter Wave Downlink over Nakagami Fading	Regular Papers	Dattaraj Mulgaonkar and Nitesh Chandra (BITS Pilani, Rajasthan, India); B. Sainath (BITS Pilani, India)
588	1570581292	LowSHeP: Low-overhead forwarding and update Solution in ndn with Hexadecimal Patricia trie	Regular Papers	Tanusree Chatterjee (Indian Institute of Engineering Science & Technology & Techno International NewTown, Kolkata, West Bengal, India); Sushmita Ruj (Indian Statistical Institute, Kolkata, India); Sipra DasBit (Indian Institute of Engineering Science and Technology, Shibpur, India)
594	1570581321	ABC optimization aided Joint User and Throughput Maximization in underlay D2D communication	Regular Papers	Shailesh Vijay Khanolkar (BITS Pilani, Goa Campus & Padre Conceicao College of Engineering, India); Nitin Sharma (BITS Pilani, India)
600	1570581330	Reliable Transmission of Critical Packets in IEEE 802.15.4-based Body Area Networks	Regular Papers	Soumen Moulik, Debapratim Dey, Kaushik Ray and Kamal Das (National Institute of Technology, Meghalaya, India)
606	1570581598	Secrecy Analysis of MRC Diversity Schemes over Nakagami-m Fading Channels	Regular Papers	Hemant Kumar Sharma (Indian Institute of Technology Ropar, India); Brijesh Kumbhani (IIT Ropar, India)
611	1570581689	A Blockchain based Solution to Know Your Customer (KYC) Dilemma	Regular Papers	Denson George and Anand Wani (BITS Pilani, India); Ashutosh Bhatia (Birla Institute of Technology and Science, Pilani, India)
617	1570581707	ODiN: Enhancing Resilience of Disaster Networks through Regression Inspired Optimized Routing	Regular Papers	Srikant Manas Kala (IIT HYDERABAD, India); Vanlin Sathya (University of Chicago, USA); Suhel Sajjan Magdum and Bheemarjuna Reddy Tamma (IIT Hyderabad, India)
631	1570582005	Trust Aware Framework for Application Placement in Fog Computing	Regular Papers	Ravi Yadav and Gaurav Baranwal (Banaras Hindu University, Varanasi, India)

637	1570582104	Performance Analysis of SM-based Hybrid MIMO FSO/RF System	Regular Papers	Sanjib Mog and Rakesh Singh Kshetrimayum (Indian Institute of Technology Guwahati, India)
643	1570582167	Group Based Semi-orthogonal User Scheduling for Massive MIMO Wireless Communication	Regular Papers	Md. Anwar Hussain (NERIST, India); Tasher Ali Sheikh (NERIST, Nirjuli, Arunachal Pradesh, India); Joyatri Bora (NERIST, India)
658	1570582192	Identifying Anomalous HTTP Traffic with Association Rule Mining	Regular Papers	Vinti Agarwal (Norwegian University of Science and Technology, Norway); Neminath Hubballi (Indian Institute of Technology Indore, India); Ambika Chitkara (Norwegian University of Science and Technology, Norway); Katrin Franke (NTNU, Norway)
664	1570582209	Task allocation in three tier Fog IoT architecture for Patient Monitoring System using stackelberg game and matching algorithm	Regular Papers	Nikita Joshi and Sanjay Srivastava (Dhirubhai Ambani Institute of Information and Communication Technology, India)
670	1570582212	Multi-Sensor Data Fusion for Cluster-based Data Aggregation in IoT Applications	Regular Papers	Surender Redhu (IIT KANPUR, India); Rajesh M Hegde (Indian Institute of Technology Kanpur, India)
680	1570582376	Deep learning based Massive-MIMO decoder	Regular Papers	Satish Kumar (International Institute of Information Technology- Naya Raipur, India); Anurag Singh (IIT Guwahati, India); Rajarshi Mahapatra (IIIT Naya Raipur, India)
686	1570582524	Incentive Based Relaying in D2D Social Networks	Regular Papers	Jagadeesha Rb (St. Joseph Engineering College, Mangalore); Anoop CV (St. Joseph Engineering College, Mangalore, India); Omar Alfandi (Zayed University, United Arab Emirates)
692	1570582596	SDN Based Dynamic Resource Scheduling for Large Scale Data Centers	Regular Papers	Upendra Singh (BITS Pilani, India); Amit Dua (Birla Institute of Technology and Science



				(BITS) Pilani, India); Neeraj Kumar (Thapar University Patiala, India)
698	1570582622	DebriNet: An Opportunistic Software Defined Networking Framework over PSLV Debris	Regular Papers	Suraj R (Indian Institute of Space Science and Technology, India); Sarath Babu (Indian Institute of Space Science and Technology (IIST), India); Debabrata Dalai (Indian Institute of Space Science and Technology & IIST, India); Manoj Bs (Indian Institute of Space Science and Technology, India)
704	1570582734	STAN+PETRA: A Statistical Analysis Aided Routing Algorithm for QoS in Mission-Driven IoT Networks	Regular Papers	Sara El Alaoui and Byrav Ramamurthy (University of Nebraska-Lincoln, USA)
710	1570582842	Channel Estimation in C-V2X Using Deep Learning	Regular Papers	Raja Sattiraju, Andreas Weinand and Hans D. Schotten (University of Kaiserslautern, Germany)
715	1570582928	Point-to-multipoint virtual link embedding in Multi-domain SDN Networks	Regular Papers	Lunde Chen (Shanghai University, China); Slim Abdellatif (CNRS/LAAS & Université de Toulouse, INSA, LAAS, France); Raoua Chakroun (LAAS/CNRS, Tunisia)
721	1570583018	De-Authentication Attack Detection using Discrete Event Systems in 802.11 Wi-Fi Networks	Regular Papers	Abhay Deep Seth, Santosh Biswas and Amit Kumar Dhar (IIT Bhilai, India)
727	1570583024	A Machine Learning Approach for SNR Prediction in 5G Systems	Regular Papers	Krunal Saija (Radisys India Pvt Ltd, India); Shekar Nethi (Radisys Pvt. Ltd., India); Saptarshi Chaudhuri (IIIT-B, India); Karthik Rm (Ericsson Research, India, Chennai)
733	1570583027	A Matching-theoretic Framework for Consolidation of Flexible Cloud-native Central Units in 5G-RAN	Regular Papers	Debashisha Mishra (Indian Institute of Technology Hyderabad, India); Himank Gupta (Indian Institute of Technology, Hyderabad, India); Mehul Sharma (Indian Institute of Technology Hyderabad,



				India); Bheemarjuna Reddy Tamma (IIT Hyderabad, India); Antony Franklin A (Indian Institute of Technology Hyderabad, India)
739	1570583028	Comparison Between IPv4 and IPv6 using OSPF and OSPFv3 on Riverbed Modeler	Regular Papers	Neha Jain and Ashish Payal (Guru Gobind Singh Indraprastha University, India)
746	1570583111	Efficient QoS Provisioning Using SDN for End-to-end Data Delivery in UAV Assisted Network	Regular Papers	Chetna Singhal (Indian Institute of Technology Kharagpur, India); K Rahul (IIT Kharagpur, India)
759	1570583211	Performance of a Leaky-Integrate-and-Fire Model vis-a-vis Measured Response of Diseased Neurons	Regular Papers	Sashmita Panda (G. S. Sanyal School of Telecommunication, Indian Institute of Technology, Kharagpur, India); Chittotosh Ganguly (IIT Kharagpur, India); Subhrajit Das (University of Calcutta, India); Rituparna Mandal (IIT Kharagpur, India); Saswat Chakrabarti (G. S. Sanyal School of Telecommunications & Indian Institute of Technology, Kharagpur, India)
765	1570583233	An Online Algorithm for Energy Harvesting Cognitive Radio IoT Network	Regular Papers	Shruti Lad and Varada Potnis Kulkarni (College of Engineering Pune, India); Radhika Joshi (College of Engineering Pune)
771	1570583236	A Novel PHY Layer Approach for Enhanced Data Rate in LoRa using Adaptive Symbol Periods	Regular Papers	Akshay Ramesh Jadhav and P Rajalakshmi (Indian Institute of Technology Hyderabad, India)
783	1570583915	A Packet Level Steering Solution for Tightly Coupled LWIP Networks	Regular Papers	Thomas Valerrian Pasca Santhappan (Qualcomm Research, USA); Sumanta Patro (TCS Research & Innovation, India); Bheemarjuna Reddy Tamma (IIT Hyderabad, India); Antony Franklin A (Indian Institute of Technology Hyderabad, India)

789	1570585603	Deployment of Multi-tier Fog Computing System for IoT Services in Smart City	Regular Papers	Prasenjit Maiti (National Institute of Technology, India); Hemant Apat (National Institute of Technology Rourkela, Odisha, India); Ayush Kumar (National Institute of Technology, Rourkela, Odisha, India); Bibhudatta Sahoo and Ashok Turuk (National Institute of Technology, Rourkela, India)
795	1570585612	Performance of MIMO-VLC system for Different Radiation Patterns of LED in Indoor Optical Wireless Communication System	Regular Papers	Ajit Kumar (BIT MESRA, RANCHI, India); S Ghorai (BIT Mesra, India)
804	1570585949	Inferring Occupants Count from Low Power IP based Devices in Building through Data Fusion	Regular Papers	Dipti Trivedi (Indian Institute of Technology Jodhpur, India); Venkataramana Badarla (Indian Institute of Technology Tirupati, India)
810	1570586019	A Novel Approach for FPGA Implementation of Register Exchange Based Viterbi Decoder and Re-Encoding based Node Synchronizer	Regular Papers	Anil Kumar and V Ravichandran (Indian Space Research Organization, India); Sudhakar S (ISRO Satellite Centre (ISAC, Now URSC), India)
820	1570586148	Error Rate Analysis and Efficient Channel Dependent Scheduling for SC-FDMA Uplink	Regular Papers	Vinay Kumar Trivedi and Preetam Kumar (Indian Institute of Technology Patna, India)
826	1570586209	Performance Analysis of Blockchain based Smart Grids with Ethereum and Hyperledger Implementations	Regular Papers	Hamid Malik (University of Oulu, Finland); Ahsan Manzoor (Rovio Entertainment Company & University of Oulu, Finland); Mika E Ylianttila (University of Oulu, Finland); Madhusanka Liyanage (University College Dublin, Ireland & University of Oulu, Finland)
831	1570586267	Energy Efficiency Enhancement in Full-Duplex Relay System through Adaptive Antenna Allocation	Regular Papers	Mohd Hamza Naim Shaikh (IIIT Delhi, India); Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIIT-

				Delhi), India); Anand Srivastava (Indraprastha Institute of Information Technology Delhi, India)
837	1570586306	On the Secrecy Performance of Cooperative Cognitive Vehicular Relay Networks	Regular Papers	Suneel Yadav (Indian Institute of Information Technology, Allahabad, Uttar Pradesh India, India); Anshul Pandey (Indian Institute of Information Technology Allahabad, India)
843	1570586316	A Novel Throughput Improvement Algorithm for High Density Wireless LAN	Regular Papers	Rahul Bajpai (BITS-Pilani, KK Birla Goa Campus, India); Naveen Gupta (BITS Pilani Goa, India)
849	1570586402	Performance of Underlay Device-to-Device Communication with a Mode Selection Strategy	Regular Papers	Pratik Chakraborty (National Institute of Technology Durgapur, India); Shankar Prakriya (Indian Institute of Technology, Delhi, India)
855	1570586554	A Score Level Fuzzy Rule based Multi-Biometric Framework for enhancing security of cloud access scenario	Regular Papers	Aarohi Vora (Gujarat Technological University, India); Chirag N. Paunwala (Sarvajanik College of Engineering and Technology, India); Mita Paunwala (Gujarat Technological University, India)
860	1570586561	Dynamic selection of Virtual Small Base Station in 5G Ultra-Dense Network using Initializing Matching Connection Algorithm	Regular Papers	Kuna Venkateswararao (National Institute of Technology Goa, India); Pravati Swain (National Institute of Technology, Goa, India); Christophoros Christophorou (RISE Research Center on Interactive Media, Smart Systems and Emerging Technologies & CITARD Services LTD, Cyprus); Andreas Pitsillides (University of Cyprus, Cyprus)
866	1570586682	CoDRL: Intelligent Packet Routing in SDN Using Convolutional Deep Reinforcement Learning	Regular Papers	Pravati Swain (National Institute of Technology, Goa, India); Uttam Kamalia (Clarivate Analytics, India);

				Raj Bhandarkar (Bleacon Innovations Pvt Ltd, India); Tejas Modi (National Institute of Technology Goa, India)
877	1570586716	Optimization of Polyphase Orthogonal sequences for MIMO Radar Using Genetic Algorithm with Hamming scan	Regular Papers	Gurram Venkataramana (University College of Engineering Kakinada, India); Madhu Ramarakula (JNTUK, India)
882	1570586749	On outage analysis of two user cooperative NOMA with Hybrid SWIPT protocol	Regular Papers	Suraj Dhar (IIT Kanpur, India); Adrish Banerjee (Indian Institute of Technology, Kanpur, India); Pradip Sircar (Indian Institute of Technology Kanpur, India)
888	1570586843	Studying 5G Pico-Cell Base Station as Fiber to Millimeter-Band Wireless Interface	Regular Papers	Mikhail Belkin, Tatiana Bakhvalova and Dmitriy Fofanov (MIREA - Russian Technological University, Russia)
897	1570586994	Resource Sharing For Energy Harvesting Based D2D Communication Underlying Cellular network	Regular Papers	Pratap Khuntia and Ranjay Hazra (Nit Silchar, India); Javed Akhter (NIT SILCHAR, India); Anuradha Ravi (Singapore Management University, India)
903	1570587001	Modeling and Analysis of Heterogeneous Traffic Networks with Anarchists and Socialist Traffic	Regular Papers	Abhishek K Gupta (Indian Institute of Technology Kanpur, India); Adrish Banerjee (Indian Institute of Technology, Kanpur, India)
909	1570587003	DoubleTrApp: A Weak Vertex Cover based DDoS Detection and Mitigation scheme using SDN approach	Regular Papers	Priyanka Bardalai and Nabajyoti Medhi (Tezpur University, India); Swarnendu Chakraborty (National Institute of Technology Arunachal Pradesh, India)
930	1570587266	Analytical Modelling and Performance Evaluation of a Prediction based EH-Cooperative CRN under Erlang Distribution	Regular Papers	Banani Talukdar (NIT SILCHAR, India); Deepak Kumar (Indian Institute of Technology, Indore, India); Wasim Arif (National Institute Of Technology Silchar, India)

936	1570587717	Remote Attestation Based Software Integrity of IoT Devices	Regular Papers	Shyam Sundar (Sri Sathya Sai Institute Of Higher Learning, India); Prabhakara Yellai (Cisco Systems, Inc, India); Siva Sankara Sai Sanagapati, Prayas Chandra Pradhan and Sai Kiran Kumar Reddy Y (Sri Sathya Sai Institute of Higher Learning, India)
940	1570587742	A study of Average and Peak Age-of-Information for MAC protocols in Contiki	Regular Papers	Vineeth Bala Sukumaran (Indian Institute of Space Science and Technology, Trivandrum, India)
945	1570587901	Minimum delay scheduling under average power constraint for 802.11ax downlink	Regular Papers	Binoy Babu (Indian Institute of Space Science and Technology, India); Vineeth Bala Sukumaran (Indian Institute of Space Science and Technology, Trivandrum, India)
954	1570587967	System-Level Performance Analysis of DOA Estimation in Cellular Networks using Stochastic Geometry	Regular Papers	Shuchi Tripathi (IIT Kanpur, India)
30	1570565588	On Achieving Hidden Markov Model Estimation Freshness in Sensor Networks	Short Papers	Arzad Kherani (Indian Institute of Technology, Bhilai, India); Ashish Vishwakarma (IIT Bhilai, India); Siddharth Lotia (IIIT Naya Raipur, India); Priyank Saxena (Agverse Technologies Pvt Ltd, India)
40	1570566372	Audio and Video Transmission Using Visible Light Transmission	Short Papers	SatyaJaswanth Badri (Indian Institute of Technology, Ropar, India); Sai Hemanth Badri (Pondicherry Engineering College, India)
66	1570567374	Test-bench for Task Offloading Mechanisms: Modelling the Rewards of Non-stationary Nodes	Short Papers	Aniq Ur Rahman (National Institute of Technology Durgapur, India); Sarnava Konar (National Institute of Technology, Durgapur, India); Ayan Banerjee (National Institute of Technology Durgapur, India)

75	1570568111	Improved Packet Detection in LoRa-like Chirp Spread Spectrum Systems	Short Papers	Arzad Kherani (Indian Institute of Technology, Bhilai, India); KM Poonam Maurya (IIT Bhilai, India)
213	1570572501	Dual Band Metamaterial Absorber Using Concentric Split-Ring Structures For Wireless Applications	Short Papers	Anumoy Ghosh (National Institute of Technology Mizoram & Indian Institute of Engineering Science and Technology, Shibpur, India); Gobinda Sen (IEST, SHIBPUR & HOWRAH, WEST BENGAL, INDIA, India)
261	1570573593	Performance of Random Access Games over an IEEE 802.11ac Testbed	Short Papers	Sandip Chakraborty (Indian Institute of Technology Kharagpur, India); Debarshi Kumar Sanyal (IIT Kharagpur, India); Samiran Chattopadhyay (Jadavpur University, India)
358	1570574568	Detecting Domain Generation Algorithms to prevent DDoS attacks using Deep Learning	Short Papers	Subham Kumar (BITS Pilani, India); Ashutosh Bhatia (Birla Institute of Technology and Science, Pilani, India)
379	1570574664	Multi-band multi-location RF power survey and ambient RF energy harvesting circuit	Short Papers	Akhil Kumar Donka (IIIT Naya Raipur); Devjyoti Badal Das (Mumbai University & IIT Bhilai, India); Nikhil Chander (Indian Institute of Technology Bhilai, India); Arzad Kherani (Indian Institute of Technology, Bhilai, India)
560	1570580964	Experimental Observations on the Feasibility of VLC-Based V2X Communications under various Environmental Deterrents	Short Papers	Khagendra Joshi and Neelabhro Roy (IIIT Delhi, India); Gurinder Singh (IIIT DELHI, India); Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi), India); Anand Srivastava (Indraprastha Institute of Information Technology Delhi, India)
623	1570581794	Visible Light Communication Modulation Toolkit using	Short Papers	Saaransh Pandey (Delhi Technological University, India); Anand Singh (Indraprastha Institute of

		Reconfigurable GNU Radio Framework		Information Technology Delhi, India); Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIT-Delhi), India); Anand Srivastava (Indraprastha Institute of Information Technology Delhi, India)
627	1570582001	A Smart User-Centric Visible Light Communication system	Short Papers	Yash Gupta and Ashutosh Bansal (IIITD, India); Anand Singh (Indraprastha Institute of Information Technology Delhi, India); Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIT-Delhi), India); Anand Srivastava (Indraprastha Institute of Information Technology Delhi, India); Khagendra Joshi (IIT Delhi, India)
654	1570582181	An asymmetrical slot circularly polarized on-chip antenna for wireless SoC applications at 2.45 GHz	Short Papers	Harshavardhan Singh (National Institute of Technology, Durgapur, India); Biki Hazarika and Sachin Kumar (National Institute of Technology Durgapur, India); Sujit Kumar Mandal (National Institute of Technology, Durgapur, India)
676	1570582258	SDR Compatible Constant Current LED Driver Circuit Design for Visible Light Communication Applications	Short Papers	Sneha Agarwal (Jaypee Institute of Information Technology, Noida, India); Anand Singh (Indraprastha Institute of Information Technology Delhi, India); Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIT-Delhi), India); Anand Srivastava (Indraprastha Institute of Information Technology Delhi, India)
752	1570583128	Hybrid Modulation Scheme and Modified Energy Detector for	Short Papers	Sanjeev Sharma (IIT GUWAHATI, India); Kuntal Deka (IIT Goa,



		Molecular Communications		India); Vimal Bhatia (Indian Institute of Technology Indore, India)
756	1570583135	Logical Network Mapping With Content Connectivity Against Multiple Link Failures in Optical Metro Networks	Short Papers	Giap Le (University of California, Davis, USA); Andrea Marotta (University of L'Aquila, Italy); Sifat Ferdousi (University of California, Davis, USA); Sugang Xu and Yusuke Hirota (National Institute of Information and Communications Technology, Japan); Yoshinari Awaji (National Institute of Information and Communications Technology (NICT), Japan); Massimo Tornatore (Politecnico di Milano & University of California, Davis, Italy); Biswanath Mukherjee (University of California, Davis, USA)
800	1570585884	Coverage Enhancement in Indoor Millimeter Wave Systems Under Random Human Blockages	Short Papers	Gourab Ghatak (IIIT Delhi, India)
816	1570586094	Analyzing Malicious URLs using a Threat Intelligence System	Short Papers	Sampashree Nayak, Deepak Nadig and Byrav Ramamurthy (University of Nebraska-Lincoln, USA)
893	1570586965	A simulation based study to identify optimal number of controllers for multi-application scenarios in Software Defined Wireless Sensor Network (SDWSN)	Short Papers	Pramod Tripathi (DAIICT Gandhinagar & Other, India); Kalyan Subbu (DAIICT, Gandhinagar, India)
926	1570587241	H Shaped Dielectric Resonator Antenna for Wideband Applications	Short Papers	Abhijeet Gaonkar (NIT Goa, India)
950	1570587957	Null Steering and Sidelobe Canceller using Frequency Response Masking approach for Antenna Arrays	Short Papers	Shailesh Vijay Khanolkar (BITS Pilani, Goa Campus & Padre Conceicao College of Engineering, India); Sharlaine Monteiro (Padre Conceicao College of Engineering, India)



154	1570569629	A Judicious Spectrum Sensing Technique in Cognitive Radio Assisted Internet of Vehicles	Women Engineering (WiE) Track	in	Aruna Raveendran (GEC Idukki, India); Moumita Patra (IIT Guwahati, India)
160	1570569686	Classification of Security Attacks in WSNs and Possible Countermeasures: A Survey	Women Engineering (WiE) Track	in	Shivani Sharma (SGSITS, India); Anjulata Yadav (Shri G. S. Institute of Technology and Science, India); Manish Panchal (SGSITS, Indore, India); Prakash Vyavahare (S G S Institute of Technology and Science, India)
166	1570569767	Application of game theory to cooperative underlay cognitive radio IoT	Women Engineering (WiE) Track	in	Saylee Kanadje and Vaibhav Miglani (BITS Pilani, Rajasthan, India); B. Sainath (BITS Pilani, India)
177	1570569852	A Game Theory based Approach for Opportunistic Channel Access in Green Cognitive Radio Networks	Women Engineering (WiE) Track	in	Akanksha Srivastava (Delhi Technological University, India); Mani Shekhar Gupta (National Institute of Technology, Hamirpur, Himachal Pradesh, India); Krishan Kumar (National Institute Of Technology, Hamirpur, India)
234	1570573230	Handling concurrent requests in a secret sharing based storage system using Petri Nets	Women Engineering (WiE) Track	in	Priyanka Gupta (Dhirubhai Ambani Institute of Information and Communication Technology, India); Gagan Garg (DAIICT Gandhinagar, India)
256	1570573502	A prototype of the dynamic traffic management: Smart barricade system	Women Engineering (WiE) Track	in	Charushila Raskar, Jr (SNDT University, India); Shikha Nema (UMIT SNDT University, India)
271	1570573965	Hierarchical Ego based Community Detection in Social Network	Women Engineering (WiE) Track	in	Paramita Dey (Govt. College of Engineering & Ceramic Technology, India); Sarbani Roy (Jadavpur University, India)
282	1570574124	Relay Selection for Energy Harvesting Cooperative NOMA	Women Engineering (WiE) Track	in	Shilpa Rao (Indian Institute of Information Technology Guwahati, India)
317	1570574426	Defending against Sybil Attacks in Vehicular Platoons	Women Engineering (WiE) Track	in	Jesty Mariam Santhosh (Amrita Vishwa Vidyapeetham, India); Sriram Sankaran (Amrita University, India)

347	1570574537	Feasibility of Lab-On-Chip Theranostic Platforms in Wireless Body Area Network (WBAN)	Women Engineering (WiE) Track	in	Shagun Gupta (Shri Mata Vaishno Devi University, India)
446	1570575491	Blockchain Based Framework For Driver Profiling in Smart Cities	Women Engineering (WiE) Track	in	Nithuna Pramod Ps (Amrita Vishwa Vidyapeetham, India); Sriram Sankaran (Amrita University, India)
481	1570579405	Rateless Code-Aided Transmission Scheme to Achieve Secrecy in a Delay-Constraint Environment	Women Engineering (WiE) Track	in	Sonam Jain (Indian Institute of Technology Delhi, Hauz Khas, India); Ranjan Bose (Indian Institute of Technology, India)
493	1570579843	Compact High Gain Hexagonal Fractal Antenna for 5G applications	Women Engineering (WiE) Track	in	Srivalli Gundala (G Narayanamma Institute of Technology and Science, India); Srinivasa Baba Viriyala (ACE Engineering College, India); Vijaya Adepu (KITS Warangal, India); Soujanya Machanna (G Narayanamma Institute of Technology and Science, India)
543	1570580754	Secrecy performance Analysis for Underlay Cognitive Radio Network with Optimal Antenna Selection and Generalized Receiver Selection	Women Engineering (WiE) Track	in	Shilpa Thakur (Indian Institute of Technology, India); Ajay Singh (Indian Institute of Technology Jammu, India)
554	1570580956	An Efficient Handover Management Technique For Improving QoS in Next Generation Networks	Women Engineering (WiE) Track	in	Tanu Goyal, Riya Goyal and Sakshi Kaushal (Panjab University, India)
648	1570582173	Mechanism of context-aware and adaptive data collection, aggregation and analysis	Women Engineering (WiE) Track	in	Dhebeha Mj and Swaminathan Seetharaman (Wipro Ltd, India)
777	1570583888	Secure and Lightweight Communication Scheme for VANETs using Identity Based Encryption	Women Engineering (WiE) Track	in	Manu Singh (Birla Institute of Technology and Science(BITS) Pilani, KK Birla Goa Campus, India); Trupil Limbasiya (BITS Pilani, India); Debasis Das (IIT Jodhpur, Rajasthan, India)
872	1570586705	Performance Analysis of Drone assisted Cooperative Communication in Hybrid channel Environment	Women Engineering (WiE) Track	in	Nikita Goel (NIT Kurukshetra, India); Vrinda Gupta (National Institute of

				Technology, Kurukshetra, India)
915	1570587009	AQCI: An IoT Based Air Quality and Thermal Comfort Model using Fuzzy Inference	Women in Engineering (WiE) Track	Krati Rastogi, Anurag Barthwal and Divya Lohani (Shiv Nadar University, India)
921	1570587132	Performance Analysis of Decode-and-Forward based Hybrid RF/FSO-VLC system	Women in Engineering (WiE) Track	Rima Deka and Ashutosh Verma (Indian Institute of Information Technology Guwahati, India); Sanya Anees (Indian Institute of Information Technology - Guwahati, India)
980	1570610957	Coexistence of LTE-Unlicensed and WiFi with Non-identical Contention-free Rates	5th DST UKIERI International Workshop	Yuthsavi Kondru (Project Associate at 5G testbed IIT Hyderabad, India); Naveen Kolar Purushothama (Indian Institute of Technology Tirupati, India)
992	1570611401	Success Probability Analysis for Edge Caching in Massive MIMO Networks	5th DST UKIERI International Workshop	Navneet Garg (Herriot Watt University, United Kingdom (Great Britain)); Mathini Sellathurai (Heriot-Watt University, United Kingdom (Great Britain)); Faheem A. Khan (University of Huddersfield, United Kingdom (Great Britain)); Tharmalingam Ratnarajah (The University of Edinburgh, United Kingdom (Great Britain)); Vimal Bhatia (Indian Institute of Technology Indore, India)
997	1570613782	AI-enabled Wi-Fi Network to Estimate Human Sleep Quality based on Intensity of Movements	5th DST UKIERI International Workshop	Saurabh Maheshwari (Government Women Engineering College Ajmer & Student Member IEEE, India); Anil Tiwari (IIT Jodhpur, India)
960	1570609197	Design of mmWave Dual Band Antenna for 5G Wireless	4th International Workshop on 5G and Future Wireless Technology (5GFWT 2019)	Sri Sai Apoorva Tirumalasetty (Amrita School of Engineering, Bangalore, India); Navin Kumar (Amrita University & School of Engineering, India)
964	1570610811	An SD-WAN Controller for Delay Jitter	4th International Workshop on 5G	Ahtisham Ali Ansari and Sri Pramodh Rachuri (IIT

		Minimization in Coded Multi-access Systems	and Future Wireless Technology (5GFWT 2019)	Bhilai, India); Arzad Kherani (Indian Institute of Technology, Bhilai, India); Deepaknath Tandur (ABB, India)
970	1570610879	SINR based Uplink Sub-band Clustering Mechanism for Differentiated Services in NOMA	4th International Workshop on 5G and Future Wireless Technology (5GFWT 2019)	Dibakar Das (IIITB, India); Jyotsna Bapat (International Institute of Information Technology, India); Debabrata Das (International Institute of Information Technology - Bangalore, India)
986	1570611075	Throughput and Service Enhancing Network Selection Algorithm for Dual Registration in 5G Standalone Architecture	4th International Workshop on 5G and Future Wireless Technology (5GFWT 2019)	Prasad Basavaraj Dandra (Samsung Semiconductor & International Institute of Information Technology Bangalore, India); Prashant Wali (BITS Pilani Hyderabad Campus, India); Vijay Ganesh Surisetty and Seshadri Elluru (Samsung Semiconductor Institute of Research Bangalore, India); Tushar Vrind (Samsung, India); Debabrata Das (International Institute of Information Technology - Bangalore, India)
975	1570610939	Person re-identification through face detection from videos using Deep Learning	Impact of Emerging Standards, 5G and Beyond, and Machine Learning on Connected Vehicles	Vimala Mathew (Hindustan Institute of Technology and Science & National Institute of Electronics and Information Technology, Calicut, India); Anu Chacko (NIT Calicut, India); Tom Toby (National Institute of Electronics and Information Technology, Calicut, India); Udhayakumar A (Hindustan Institute of Technology and Science, India)