



TECHNICAL SESSIONS

|  IEEE International Conference on Advanced Networks and Telecommunications Systems 14 th -17 th December 2020 // Virtual Conference | | | |
|--|--|---|---|
| Session: TS 1 | Session Chair: Dr. Prabhat Sharma Session Volunteer: Mohd. Hamza | | |
| Date: December 15, 2020 Time: 15:00 – 16:15 | | | |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 1570680239 | Outage Analysis of Millimeter Wave Assisted Full-Duplex Cooperative D2D communications System with Non-orthogonal Multiple Access | Rahul Bajpai, Kshitij Nawandar and Sharad Nag (BITS-Pilani, KK Birla Goa Campus, India); Naveen Gupta (BITS Pilani Goa, India) |
| 2. | 1570666702 | Beamformed Sensing using Dominant DoA in Cognitive mmWave Network | Madhuri Latha, Sai Krishna Charan Dara and Sachin Chaudhari (International Institute of Information Technology, India) |
| 3. | 1570659801 | Leveraging Multi-cell NOMA for Cell Edge | Zhanwei Yu (Uppsala University, Sweden); Lei You (Independent Researcher, Sweden); Di Yuan (Uppsala University, Sweden) |
| 4. | 1570663695 | One Bit Imperfect Feedback Based Antenna Cluster Selection for MIMO System over Nakagami-m Fading Channels | Ankit Garg (Jaypee Institute of Information Technology Noida, India); Sunil Malik and Manav Bhatnagar (Indian Institute of Technology Delhi, India) |

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|---|--|--|--|
| Session: TS 2 | Session Chair: Dr. Abhishek Dixit Session Volunteer: Rana Kumar Jana | | |
| Date: December 15, 2020 Time: 15:00 – 16:15 | | | |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 1570655715 | Two Laser Selection Scheme for FSO Communication | Pranav Sharda (Indian Institute of Technology-Delhi, India); Anshul Jaiswal (Indian Institute of Technology Roorkee, India); Manav Bhatnagar (Indian Institute of Technology Delhi, India); Ankit Garg (Jaypee Institute of Information Technology Noida, India) |
| 2. | 1570659402 | Design of transmitter communication module for nanosatellite optical communication terminal | Nirlesh Singh (LEOS-ISRO & IIT DELHI, India); Ravikumar Keshavappa (Indian Space Research Organisation, India); Sonali Sonali (IIT Delhi, India); Abhishek Dixit (Indian Institute of Technology Delhi & IBBT, India); Umesh S b (LEOS-ISRO, India) |
| 3. | 1570666717 | Reactive Hitless Hop tuning based defragmentation algorithm for enhanced spectrum efficiency in Elastic optical networks | Sai Kiran Posam (Sri Sathya Sai Institute of Higher Learning, India); Sai Kishore Bhyri (Cisco Systems Inc., India); Gowrishankar R, Venkata Narasimha Reddy Challa and Siva Sankara Sai Sanagapati (Sri Sathya Sai Institute of Higher Learning, India) |
| 4. | 1570666285 | On the Performance of Hybrid FSO/RF System Over Generalized Fading Channels | Narendra Vishwakarma and Swaminathan Ramabadran (Indian Institute of Technology Indore, India) |



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| Session: TS 3 | Session Chair: Dr. Harshan Jagadeesh Session Volunteer: Mansi Peer | | |
|---|---|--|---|
| Date: December 15, 2020 Time: 15:00 – 16:15 | | | |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 1570662252 | Availability Comparison of 5G Network Service | Priyatosh Mandal (Centre for Development of Telematics, New Delhi, India) |
| 2. | 1570662271 | On the Availability of 5G VNF from Initialization Perspective | Priyatosh Mandal (Centre for Development of Telematics, New Delhi, India) |
| 3. | 1570678200 | Dynamic Resource Allocation of eMBB-uRLLC Traffic in 5G New Radio | Muhammed Al-Ali, Elias Yaacoub and Amr Mohamed (Qatar University, Qatar) |
| 4. | 1570678848 | PPSE: Privacy Preservation and Security Efficient AKA Protocol for 5G Communication Networks | Balu Laxman Parne (Academician & SVNIT, Surat, India); Shubham Gupta (Visvesvaraya National Institute of Technology Nagpur, India); Kaneesha Gandhi and Shubhangi Meena (SVNIT, Surat, India) |



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| Session: TS 4 | Session Chair: Dr. Zilong Liu Session Volunteer: Gurinder Singh | | |
|---|--|--|---|
| Date: December 15, 2020 Time: 17:30 - 18:45 | | | |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 1570661730 | Buffer-Aided AF Cooperative Relaying Network with NOMA Transmission Scheme | Sandeep Joshi (Birla Institute of Technology & Science (BITS), Pilani, India); Manoj B. R. (Linköping University, Sweden); Soumya P. Dash (Indian Institute of Technology Bhubaneswar, India) |
| 2. | 1570666275 | Low Complexity Based QR-LRL OSIC Detector for Downlink NOMA-MIMO Systems | Rahul Makkar (The LNM Institute of Information Technology & Rupa Ki Nangal, Post-Sumel, Via-Jamdoli, India); Kotha Venugopalachary (Shiv Nadar University, India); Divyang Rawal (LNMIIT, India); Vijay Kumar Chakka (Shiv Nadar University Greater Noida, India); Nikhil Sharma (The LNM Institute of Information Technology, Jaipur, India) |
| 3. | 1570671524 | Qos Aware and Fair Resource Distribution for Uplink NOMA Cellular Networks | Priya Gupta (Indian Institute of Technology Roorkee & IIT, India); Debashis Ghosh (Indian Institute of Technology (IIT) Roorkee, India) |
| 4. | 1570675900 | On Energy Harvesting in Hybrid Massive MIMO Cooperative NOMA in a Multiuser Cell | Suraj Dhar (IIT Kanpur, India); Adrish Banerjee (Indian Institute of Technology, Kanpur, India); Pradip Sircar (Indian Institute of Technology Kanpur, India) |

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| Session: TS 5 | Session Chair: Dr. Shobha Sundar Ram Session Volunteer: Rahul Gupta/Abhishek Kumar | | |
|---|---|---|--|
| Date: December 15, 2020 Time: 17:30 - 18:45 | | | |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 1570677933 | A CPW fed Super Wideband Dielectric Resonator Antenna | Sachin Agrawal (NIT Delhi, India) |
| 2. | 1570663579 | Design of Defected Ground Structure in Planar Array for Cross Polarization Reduction | Rajalakshmy G (Amrita Vishwa Vidyapeetham, Bangalore, India); Arpita Thakre (PES University, Bengaluru, India) |
| 3. | 1570678895 | Advanced Mechanisms for Satellite and Terrestrial Co-existence in 26/28 GHz mmWave spectrum | Dattaraj Raut Mulgaonkar (Samsung Research Institute, India); Diwakar Sharma (Samsung Semiconductor India Research, India); Rakesh Mehrotra (Samsung Research Institute, India); Tushar Vrind (Samsung, India) |

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| Session: TS 6 | Session Chair: Dr. Anuj Grover Session Volunteer: Khagendra Joshi | | |
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| Date: December 15, 2020 Time: 17:30 - 18:45 | | | |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 1570673980 | A Novel On-demand Trust-based Access Control Framework for Resource-constrained IoT System | Anjana Prabhakar (IIIT-B, India); Tricha Anjali (International Institute of Information Technology - Bangalore, India) |
| 2. | 1570675896 | Fine-grained Frequencies to Combat Cross Technology Interference in IoT: A Measurement Study | Chandra Shekhar (IIT, Bhubaneswar, India); Sudipta Saha (Indian Institute of Technology Bhubaneswar, India) |
| 3. | 1570669034 | IoT-Blockchain Enabled Yield Advisory System (IBEYAS) for Rubber Manufacturers | Shajulin Benedict (Indian Institute of Information Technology Kottayam, India & Earlier - TUM-Germany, Germany); Bill Jose Sibi (Summer Internee, IIITKottayam, India); Vinaya Balakrishnan (Technical Assistant, IIITKottayam, India) |
| 4. | 1570669034 | Data Quality Improvements for Internet of Things Using Artificial Neural Networks | Chafiq Titouna (Paris University, France); Farid Nait-Abdesselam (University of Missouri Kansas City, USA) |

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| Session: TS 7 | Session Chair: Dr. Arani Session Volunteer: Gurinder Singh | | |
|---|---|---|---|
| Date: December 16, 2020 Time: 11:30 - 13:00 | | | |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 1570664606 | An Anycast Service with Cognitive DTN Routing | Ricardo Lent (University of Houston, USA) |
| 2. | 1570666556 | ArsPAN: Attacker Revelation Scheme using Discrete Event System in 6LoWPAN based Buffer Reservation Attack | Dipojjwal Ray (Indian Institute of Technology Guwahati, India); Pradeepkumar Bhale (IIT Guwahati, India); Santosh Biswas (Indian Institute of Technology Bhilai, India); Sukumar Nandi (Indian Institute of Technology Guwahati, India); Pinaki Mitra (IIT Guwahati, India) |
| 3. | 1570671980 | Detection and Verification of Decreased Rank Attack using Round-Trip Times in RPL-Based 6LoWPAN Networks | Abhay Deep Seth, Santosh Biswas and Amit Kumar Dhar (IIT Bhilai, India) |
| 4. | 1570675906 | On-Node Correlation Based Data Reduction in WSN for Smart Agriculture | Christian Salim and Nathalie Mitton (Inria Lille - Nord Europe, France) |

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| Session: TS8 | Session Chair: Dr. Sanat Biswas Session Volunteer: Anand Singh | | |
|--|---|---|---|
| Date : December 16, 2020 Time : 11:30PM to 01:00PM IST | | | |
| Sr. No. | Paper ID | Title | Author Details |
| 1 | 1570675926 | Hybrid TDoA/AoA Based Localization Architecture for M2M Communications over Cellular Networks | Sree Krishna Das (Military Institute of Science and Technology (MIST), Bangladesh); Ratna Mudi (World University of Bangladesh & Jahangirnagar University, Bangladesh) |
| 2 | 1570675874 | Position based Throughput Maximization of Multi-UAV-assisted Relay Networks | Sandeep Kumar Singh (National Sun Yat-sen University, Kaohsiung, Taiwan); Kamal Agrawal (Indian Institute of Technology Delhi, India); Keshav Singh (National Sun Yat-sen University, Kaohsiung, Taiwan); Chih-Peng Li (National Sun Yat-sen University, Taiwan); Wan-Jen Huang (National Sun Yat-Sen University, Taiwan) |
| 3 | 1570671729 | Pano2RSSI: Generation of RSSI maps for a room environment from a single panoramic image | Nibin Raj and D V V Sai Teja (Indian Institute of Space Science and Technology, India); Vineeth Bala Sukumaran (Indian Institute of Space Science and Technology, Trivandrum, India) |

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| 4 | 1570679797 | A Location-Aware Energy-Efficient Scheme for M2M Communications by Resource Efficiency Optimization | Sree Krishna Das (Military Institute of Science and Technology (MIST), Bangladesh); Ratna Mudi (World University of Bangladesh & Jahangirnagar University, Bangladesh) |
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| Session: TS9 | Session Chair: Dr. Naveen Gupta Session Volunteer: Mansi |
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Date : December 16, 2020 | Time : 11:30PM to 01:00PM IST |

| S. NO. | Paper ID | Title | Authors |
|--------|------------|---|---|
| 1 | 1570659767 | On Collaborative Radio Frequency Observatory in India | Prabhu Chandhar (Chandhar Research Labs Pvt Ltd, India); Vinay U Pai (BITS Pilani, Pilani, India) |
| 2 | 1570671967 | Interference-Constrained Power Adaptive Decode-and-Forward Relaying Policy: Design and Performance Analysis | Rahul Sharma (BITS Pilani, Rajasthan, India); B. Sainath (BITS Pilani, India) |
| 3 | 1570671816 | Noise Analysis and Comparison of an 'M' Repeated/Regenerator Link | Manivasakan R (IIT, Chennai, India); Fredy Francis (Indian Institute of Technology Madras, India) |
| 4 | 1570661287 | Dynamic Relay Selection using a Greedy Cluster Strategy | Raja Mukhopadhyay, Sarmistha Neogy and Samiran Chattopadhyay (Jadavpur University, India) |

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| Session: TS11 | Session Chair: Dr. A V S Session Volunteer: Dilnashin |
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Date : December 16, 2020 | Time : 03:00PM to 04:15PM IST |

| S. NO. | Paper ID | Title | Authors |
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|---|------------|--|---|
| 1 | 1570678708 | Deep Reinforcement Learning based Traffic Signal Optimization for Multiple Intersections in ITS | Ananya Paul (IEST, India); Sulata Mitra (Indian Institute of Engineering Science and Technology, India) |
| 2 | 1570678832 | Deep Learning based Symbol Detection for Molecular Communications | Sanjeev Sharma (IIT (BHU) Varanasi, India); Dharmendra Dixit (Indian Institute of Technology Bhubaneswar & REC Sonbhadra, India); Kuntal Deka (IIT Goa, India) |
| 3 | 1570680341 | Artificial Intelligence-based Approach for Gait Pattern Identification Using Surface Electromyography (SEMG) | Sri Sai Madhu Vinay Chowdary Y, Jaswanth Tokala and Abhishek Sharma (The LNM Institute of Information Technology, India); Sanjeev Sharma (IIT (BHU) Varanasi, India); Vikas Sharma (The LNM Institute of Information Technology, India) |

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| Session: TS12 | Session Chair: Dr. Bijoy Session Volunteer: Saumya | | |
|--|---|--|---|
| Date : December 16, 2020 Time : 03:00PM to 04:15PM IST | | | |
| S. NO. | Paper ID | Title | Authors |
| 1 | 1570666509 | An Analysis on the Impact of Utility Functions on the Performance of Game Theory Based Channel Allocation in Cognitive Radio Wireless Sensor Network | Prativa Rai (Sikkim Manipal Institute of Technology, India); M. K. Ghose (SMIT, India); Hiren Deva Sarma (Sikkim Manipal Institute of Technology, India) |
| 2 | 1570666763 | A Hybrid Approach for Fast Anomaly Detection in Controller Area Networks | Jerin Sunny (Amrita Vishwa Vidyapeetham & Center for Cybersecurity Systems and Networks, India); Sriram Sankaran (Amrita University, India); Vishal Saraswat (Robert Bosch Engineering and Solutions Pvt Ltd, India) |
| 3 | 1570675412 | An Efficient Probabilistic Model for Anomaly Prediction in Aerial Ad Hoc Networks | Chafiq Titouna (Paris University, France); Farid Nait-Abdesselam (University of Missouri Kansas City, USA) |
| 4 | 1570675794 | A Novel Frame model for Cluster Head Selection and Codeword Detection in the 5G Cellular Networks | Venkata Sunil Reddy Timmareddy, SatyaJaswanth Badri and Vijay Bhaskar Reddy Chintakunta (Sree Vidyanikethan Engineering College, India); Rishabh Mohta (Illinois State University, USA); Kalpana Vattikunta (Sree Vidyanikethan Engineering College, India) |

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| Session: TS13 | Session Chair: Deepak (Velmenni) Session Volunteer: Neetu R. R. |
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Date : December 16, 2020 | Time : 04:45PM to 06:00PM IST |

| S. NO. | Paper ID | Title | Authors |
|--------|------------|---|--|
| 1 | 1570671644 | Quality of Experience Aware Medium Access Control in Attocell Network | Kshitiza Singh (Indian Institute of Technology Delhi, India); Abhishek Dixit (Indian Institute of Technology Delhi & IBBT, India); V K Jain (IIT Delhi, India) |
| 2 | 1570672909 | On the average and peak age-of-information for Berkeley-MAC protocol | Govind Ajith Mydhili (Indian Institute of Space Science and Technology, India); Vineeth Bala Sukumaran (Indian Institute of Space Science and Technology, Trivandrum, India) |
| 3 | 1570678171 | CSMA/SR Decentral Spatial Reuse Channel Access Algorithm for Wireless LAN | Michael Knitter (University of Dortmund, Germany); Wolfgang Endemann and Ruediger Kays (TU Dortmund University, Germany) |
| 4 | 1570678775 | Jamming on Throughput Improvement in Cognitive Radio Networks | Avik Banerjee (Madanapalle Institute of Technology & Science, India); Santi Prasad Maity (Indian Institute of Engineering Science and Technology, Shibpur, India) |

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| Session: TS 14 | Session Chair: Dr. Sanket Kalamkar Session Volunteer: Akshita | | |
|---|--|---|---|
| Date: December 16, 2020 Time: 16:45 – 18:00 | | | |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 1570666553 | Development of Improved SOQPSK based Data Transmission over Aeronautical Telemetry Link | Ravindra Nigam (Aeronautical Development Agency, India); Pyari Mohan Pradhan (Indian Institute of Technology (IIT) Roorkee, India) |
| 2. | 1570671951 | Capacity of Ligand Receptor Channel with Markovian Symbol Detection | Muskan Ahuja (IIT Campus, Hauz Khas, India); Manav Bhatnagar and Ankit Ankit (Indian Institute of Technology Delhi, India) |
| 3. | 1570674689 | Spectral Efficiency in Poisson Cluster Based HetNets with Users-Base stations Correlation | Nitish Vikas Deshpande and Sandeep K Routray (Indian Institute of Technology, Kanpur, India); Abhishek K Gupta (Indian Institute of Technology Kanpur, India) |
| 4. | 1570674829 | Increasing Cell Throughput and Network Capacity in a Real-world HetNet Environment | Haijun Gao, Japjot Bawa and Raman Paranjape (University of Regina, Canada) |

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| Session: TS 15 | Session Chair: Dr. Vivek Ashok Bohara Session Volunteer: Anand Singh | | |
|---|---|---|--|
| Date: December 16, 2020 Time: 16:45 – 18:00 | | | |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 1570661801 | An Efficient Edge Analytical Model on Docker Containers for Automated Monitoring of Public Restrooms in India | Rajasi Gore (Motilal Nehru National Institute of Technology & MNNIT Allahabad, India); Shashwati Banerjea (MNNIT Allahabad, India); Neeraj Tyagi (Motilal Nehru National Institute of Technology Allahabad, India); Sanu Saurav, Deepesh Acharya and Vishesh Verma (Motilal Nehru National Institute of Technology, India) |
| 2. | 1570666476 | Cognitive based Device Recommendation (CDR) model for Social Internet of Thing | R Subash (SRM Institute of Science and Technology, India); R Jebakumar (SRM Institute of Science and Technology, India) |
| 3. | 1570678732 | Fully Homomorphic Encryption based Privacy-Preserving Data Acquisition and Computation | Koushik Sinha (Southern Illinois University, USA); Pratham Majumder (CMR Institute of Technology, |

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| | | for Contact Tracing | India); Subhas Kumar Ghosh (Commonwealth Bank of Australia & Corporate Technology India, Australia) |
| 4. | 1570676569 | Network Security Systems Log Analysis for Trends and Insights: A Case Study | Amit Kumar Meena and Neminath Hubballi (Indian Institute of Technology Indore, India); Yogendra Singh (IIT Indore, India); Vimal Bhatia (Indian Institute of Technology Indore, India); Katrin Franke (NTNU, Norway) |

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| Session: TS 16 | Session Chair: Dr. Gourab Ghatak Session Volunteer: Mohd. Hamza | | |
|-------------------|--|---|---|
| | | Date: December 17, 2020 | Time: 11:30 – 13:00 |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 157068031 | Network failure assessment based on graph signal processing | Anurag Prakash (Indian Institute of Technology Delhi & Ciena, Canada); Subrat Kar (Indian Institute of Technology, Delhi, India) |
| 2. | 1570680587 | Performance Evaluation of Integrated XG-PON and IEEE 802.11ac based EDCA Networks | Akshita Gupta and Hritik Goel (Indraprastha Institute of Information Technology, India); Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi), India); Anand Srivastava (Indraprastha Institute of Information Technology Delhi, India) |
| 3. | 1570678196 | Real-time Spatio-Temporal based Outlier Detection Framework for Wireless Body Sensor Networks | Ali Haj-Hassan (Université de Bourgogne Franche-Comté, France); Carol Habib (Junia, France); Jad Nassar (HEI - Yncréa HdF, France) |
| 4. | 1570680376 | Geometric Sequence Technique for Effective RTO Estimation in CoAP | Vishal Jitendrakumar Rathod (National Institute of Technology Karnataka Surathkal, India); Mohit P. Tahiliani (National Institute of Technology Karnataka, Surathkal, India) |

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| Session: TS 17 | Session Chair: Dr. Abhijit Mitra Session Volunteer: Rahul | | |
|---|--|---|--|
| Date: December 17, 2020 Time: 11:30 – 13:00 | | | |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 1570674815 | Collaborative learning-based Schema for Predicting Resource Usage and Performance in F2C Paradigm | Souvik Sengupta (Fundacio i2CAT, Spain); Jordi Garcia (UPC BarcelonaTech (CRAAX), Spain); Xavier Masip-Bruin (Universitat Politècnica de Catalunya (UPC) & Advanced Network Architectures Lab (CRAAX), Spain) |
| 2. | 1570675801 | Group based Publisher-Subscriber Communication Primitives for ndnSIM | Ananthakrishnan S (National Institute of Technology Karnataka, India); Mohit P. Tahiliani (National Institute of Technology Karnataka, Surathkal, India); Deepaknath Tandur (Hitachi ABB Powergrids, India); Hariram Satheesh (ABB, India) |
| 3. | 157066627 | Testing Smart DTN Routing Using CloudLab | Ricardo Lent and Gandhimathi Velusamy (University of Houston, USA) |
| 4. | 1570680240 | Machine Learning and Caching based Efficient Data Retrieval Framework | Shashwat Mishra (BITS-Pilani, KK birla Goa Campus, India); Rahul Bajpai (BITS-Pilani, KK Birla Goa Campus, India); Naveen Gupta (BITS Pilani Goa, India); Vibhutesh Kumar Singh (University College Dublin, Ireland) |
| 5. | 1570680267 | E-Governance: A Tendering Framework Using Blockchain With Active Participation of Citizens | Yashita Goswami and Ankit Agrawal (BITS Pilani, India); Ashutosh Bhatia (Birla Institute of Technology and Science, Pilani, India) |


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| Session: TS 18 | Session Chair: Dr. Sumit Darak Session Volunteer: Saumya | | |
|---|---|---|---|
| Date: December 17, 2020 Time: 11:30 – 13:00 | | | |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 1570666411 | A Modular Hybrid Simulator for LoRaWAN | KM Poonam Maurya (IIT Bhilai, India); Arzad Kherani (Indian Institute of Technology, Bhilai, India) |
| 2. | 1570666743 | Identity Based Security Framework For Smart | Gokul Nb (Amrita Vishwa Vidyapeetham, India); Sriram Sankaran (Amrita University, India) |

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| 3. | 1570675732 | Performance Analysis of MIMO-UWOC System | Nabajyoti Nath (Indian Institute of Information Technology Guwahati, India); Sanya Anees (Indian Institute of Information Technology - Guwahati, India) |
| 4. | 1570676685 | PCRF: On the blocking probability of LTE-A | Priyatosh Mandal (Centre for Development of Telematics, New Delhi, India) |

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| Session: TS 19 | | Session Chair: Dr. Gourab Ghatak Session Volunteer: Anand Singh | |
| Date: December 17, 2020 Time: 15:00 – 16:15 | | | |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 1570678000 | Outage Analysis of D2D-based Ultra-Reliable Low Latency Communication System under Nakagami-m Fading Channel | Abhishek Kumar (Bharat Institute of Engineering and Technology); Jeswin Eldho and Shikhar Pandey (BITS Pilani KK Birla Goa Campus, India); Rahul Bajpai (BITS-Pilani, KK Birla Goa Campus, India); Naveen Gupta (BITS Pilani Goa, India) |
| 2. | 1570679020 | On the Importance of Traffic Control Subsystem in ICN-based Industrial Networks | Athreya H Nagaraj (National Institute of Technology Karnataka, Surathkal, India); Bhaskar Kataria (National Institute of Technology Karnataka, India); Aditya Chandrashekhar Sohoni and Mohit P. Tahiliani (National Institute of Technology Karnataka, Surathkal, India); Deepaknath Tandur (Hitachi ABB Powergrids, India); Hariram Satheesh (ABB, India) |
| 3. | 1570680586 | Deploying Visible Light Communication for Alleviating Light Pollution | Yash Gupta (IIITD, India); Anand Singh (Indraprastha Institute of Information Technology Delhi, India); Ashutosh Bansal (IIITD, India); Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi), India); Anand Srivastava (Indraprastha Institute of Information Technology Delhi, India) |

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|  | | | |
| Session: TS 20 | | Session Chair: Dr. Vimal Bhatia Session Volunteer: Rizwana | |
| Date: December 17, 2020 Time: 15:00 – 16:15 | | | |
| Sr. No. | Paper ID | Title | Authors |
| 1. | 1570666733 | Low Complexity Convolutional Neural Networks for Wireless Receiver Chain Optimization | Mohammed Radi (TU Dresden, Germany); Emil Matus and Gerhard P. Fettweis (Technische Universität Dresden, Germany) |

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| 2. | 1570671961 | A Study on MIMO Channel Estimation by 2D and 3D Convolutional Neural Networks | Ben Marinberg and Haim H Permuter (Ben-Gurion University of the Negev, Israel); Eilam Ben-Dror (Huawei Technologies Ltd., Israel); Ariel Cohen (Ben-Gurion University of the Negev, Israel) |
| 3. | 1570672603 | A Hybrid Anomaly Based Intrusion Detection Methodology Using IWD for LSTM Classification | Mukesh Madanan and Anita Venugopal (Dhofar University, Oman) |
| 4. | 1570675369 | Data Quality Improvements for Internet of Things Using Artificial Neural Networks | Chafiq Titouna (Paris University, France); Farid Nait-Abdesselam (University of Missouri Kansas City, USA) |