

Session No	Session Name	Date and time	Paper Title	Paper Type	Authors
1	5G/6G Communications and Networking	Main Conference - Day 1, Monday, Dec-19-2022, 14:30-16:00	Channel Estimation under Dual Wideband Effects for THz Massive MIMO Systems	Regular	Soujanya Thallapalli (Indian Institute of Technology Kharagpur, India); Debarati Sen (Indian Institute of Technology Kharagpur, India)
			Power allocation in 5G HetNets: A Federated Learning Approach	Regular	Satish Kumar (International Institute of Information Technology - Naya Raipur, India); Rajarshi Mahapatra (IIIT Naya Raipur, India); Anurag Singh (IIT Guwahati, India)
			Estimation and Compensation of Doppler in 5G NR Based Non-Terrestrial Networks	Regular	Sriram Tadavarty (The MathWorks India Private Limited, India); Nanda Kishore Chavali (Mathworks India Pvt Ltd., India)
			On Performance Analysis of FD TWR Network with Non-Linear EH Model and Imperfect SIC	Regular	Deepak Kumar (Indian Institute of Technology, Indore, India); Praveen Kumar Singya (King Abdullah University of Science and Technology, Saudi Arabia); Vimal Bhatia (Indian Institute of Technology Indore, India)
2	Security, Privacy, and Trust-I	Main Conference - Day 1, Monday, Dec-19-2022, 14:30-16:00	Impact of BB84 QKD Transmitter's Wavelength Mismatch on Secure Key Generation Rate	Short	Pragya Kushwaha (Space Applications Centre, Indian Space Research Organization, Ahmedabad, India); Adarsh Jain (Space Applications Centre, India); Santanu Sinha (Space Applications Centre, ISRO, Ahmedabad, India); Prashant Varma (Space Applications Centre Ahmedabad, India); Punam Tyagi (Space Applications Centre, India); A Bhattacharya (Space Applications Centre (ISRO), India)
			A Novel Hybrid Communication Policy using Network Coding Based Post-Quantum Cryptography and Fuzzy Inference System	Regular	Rohit Goyal, Arnab S Pawar and Rohit T Ravikumar (Birla Institute of Technology and Science Pilani, India); B. Sainath (BITS Pilani, India)
			RLT-CPABE: Revocable Location and Time Aware Ciphertext Policy Attribute-Based Encryption	Regular	Kasturi Routray and Padmalochan Bera (IIT Bhubaneswar, India)
			Security Challenges in Cyber Physical System Communication Protocols: Empirical Analysis Based on Disclosed Vulnerabilities	Regular	Parul Viresh Sindhwad and Faruk Kazi (VJI, Mumbai, India); Mahita Samant (VJI, India)
3	Signal Processing for Communications	Main Conference - Day 1, Monday, Dec-19-2022, 14:30-16:00	VLMs based Channel Estimator for OTFS VLC System Implementation and Validation of Multiple Target Tracking Technique for Indoor Applications	Regular	Anupma Sharma and Vimal Bhatia (Indian Institute of Technology Indore, India)
				Regular	Uday Kumar Singh (SnT University of Luxembourg, Luxembourg); Bhavani Shankar Mysore R (Interdisciplinary Centre for Security, Reliability and Trust & University of Luxembourg, Luxembourg); Mohammad Alae-Kerahroodi (Interdisciplinary Center for Security, Reliability and Trust, Université du Luxembourg, Luxembourg)
			A U-net with Gated Recurrent Unit and Efficient Channel Attention Mechanism for Real-time Speech Enhancement Learning to Invert the Amplifier Nonlinearity	Regular	Yechuri Sivaramakrishna (VIT - AP University, India); Sunny Dayal Vanambathina (Faculty, India)
				Regular	Yash Vasavada (Dhirubhai Ambani Institute of Information and Communication Technology, India); Gurpreet Singh Bimbro (DAICT, India)
4	Optical Communications and Networks-I	Main Conference - Day 1, Monday, Dec-19-2022, 16:30-18:00	Fragmentation Aware, Resource Efficient Protection with Fast Failure Recovery in Transparent OFDM Optical Grids/Clouds	Regular	Sougata Das (CDE Blockchain & Cognizant Technology Solutions, India); Monish Chatterjee (Asansol Engineering College & West Bengal University of Technology, India)
			XTawVNE: Inter-Core and Inter-Mode Crosstalk-Aware Virtual Network Embedding in Spectrally-Spatially Elastic Optical Networks	Regular	Vinay Kumar and Joy Halder (South Asian University, India); Eiji Oki (Kyoto University, Japan); Bijoy Chand Chatterjee (South Asian University, India)
			Enhanced TRA Algorithm for Space Division Multiplexed Elastic Optical Networks	Short	Shrinivas Petale and Suresh Subramaniam (George Washington University, USA)
			Crosstalk Compliant Routing, Modulation, Core and Spectrum Assignment Techniques in SDM-EON	Short	Baljinder Singh Heera and Anjali Sharma (Indian Institute of Technology Kanpur, India); Varsha Lohani (IIT Kanpur, India); Yatindra Nath Singh (Indian Institute of Technology Kanpur, India)
5	Intelligent Meta-Surfaces	Main Conference - Day 1, Monday, Dec-19-2022, 16:30-18:00	Hold on to your Complex Phase Estimation Algorithms for Reconfigurable Intelligent Surfaces	Regular	Saksham Bhushan (Indian Institute of Technology Bhilai, India); Arzad Kherani (Indian Institute of Technology, Bhilai, India); Thazhathe Veetil Sreejith (IIT Bhilai, India)
			Multi-user Scheduling in Controlled Wireless Environments	Regular	Sai Teja Suggala (Indian Institute of Technology Bhilai, India); Arzad Kherani (Indian Institute of Technology, Bhilai, India); Thazhathe Veetil Sreejith (IIT Bhilai, India)
			Reconfigurable Intelligent Surface MIMO Simulation using Quasi Deterministic Radio Channel Model	Regular	Semyon Dorokhin, Pavel Lysov, Anastasia Aderkina and Vladimir Lyashev (Huawei Technologies Co. Ltd., Russia)
			Intelligent Reflecting Surfaces Versus Optical Mirrors: Performance Comparison for Indoor Physical Layer Security Environments	Regular	Kanak Lata (Indraprastha Institute of Information Technology Delhi, India); Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi), India); Anand Srivastava (Indraprastha Institute of Information Technology Delhi, India); Mohd Hamza Naim Shaikh (IIIT Delhi, India)
6	Aerial and Satellite Communications	Main Conference - Day 1, Monday, Dec-19-2022, 16:30-18:00	Design and Analysis of Dual- and Single-Band Circularly Polarized Rectangular Dielectric Resonator Antennas Using Method of Moments	Short	Pankaj Chaudhary (DA-ICT, India); Deepak Ghodgaonkar (DAICT, India); Sanjeev Gupta (DA-ICT, India)
			Interference Coordination Scheme for the Downlink of UAV Assisted Cellular Network	Short	Manish Kumar and Abhishek Jindal (Dhirubhai Ambani Institute of Information and Communication Technology, India); Kunwar Pritraj Rajput (SPARC, SnT, University of Luxembourg, Luxembourg)
			Performance Improvement and Assessment of NavIC Software Receiver	Regular	Abhijit Dey (Birla Institute of Technology & Science Pilani, India); Prateek Singh (Birla Institute of Technology & Science, India); Nitin Sharma (BITS Pilani, India); Bing Xu and Li-Ta Hsu (The Hong Kong Polytechnic University, Hong Kong)
			Dynamic Fencing for Interference Mitigation in Integrated Satellite-Terrestrial Networks	Regular	Anand Baswade (Indian Institute of Technology Bhilai (IIT Bhilai), India); Aman Khan and Noman Alam Kherani (IIT Bhilai, India)
			Low-Complexity Interference Reduction for GFDM Systems Using Corrective Coefficients	Regular	Reza Abdolee (CSU Channel Islands, Camarillo, CA, USA); Behzad Mozaffari Tazehkand (University of Tabriz, Iran); Mohammad Reza Ghavidel Aghdam (Ozyegin University, Turkey)
				Regular	Muneeb Ahmed (Indian Institute of Technology, Delhi, India); Gaim Abbas (Indian Institute of Technology Delhi, India); Nishant Mahawar (Indian Institute of Technology Bhilai, India); Arzad Kherani (Indian Institute of Technology, Bhilai, India); Brejesh Lall (Indian Institute of Technology Delhi, India); Rajesh Kumar and Siddhi Jain (Addverb Technologies, India)
7	Edge & Emerging Technologies	Main Conference - Day 2, Tuesday, Dec-20-2022, 14:30-16:00	Study of Traffic Characteristics for Haptic Signals in split AI/ML control	Short	Muneeb Ahmed (Indian Institute of Technology, Delhi, India); Arzad Kherani (Indian Institute of Technology, Bhilai, India); Brejesh Lall (Indian Institute of Technology Delhi, India); Rajesh Kumar and Siddhi Jain (Addverb Technologies, India)
			Enabling edge intelligence in remote robot control: Architecture, prediction mechanism and offloading	Short	Pimpy Gandotra (Indian Institute of Technology, Delhi, India); Ashish Singh Patel (Indian Institute of Technology Delhi, India); Arzad Kherani (Indian Institute of Technology, Bhilai, India); Brejesh Lall (Indian Institute of Technology Delhi, India); Harsh Mittal (Delhi Technological University, India)
			Adaptive ISI Mitigation for Mobile Molecular Communications	Regular	Mahendra Singh Thakur (Indian Institute of Technology Indore, India); Reena Disawal (Rajiv Gandhi Pradyogiki Vishwavidyalaya & Prestige Institute of Engineering Management and Research, Indore, India); Aabha Jain (Prestige Institute of Engineering Management and Research, Indore, India); Sadhana Tiwari (Prestige Institute of Engineering Management & Research, Indore, MP, India)
			Priority Queuing Strategy for Self-Overload Control in SIP Servers	Regular	Kiran Kumar Guduru (Samsung R&D Institute India - Bangalore, India)
8	Software Defined Networks	Main Conference - Day 2, Tuesday, Dec-20-2022, 14:30-16:00	Coexistence of LTE-Uncensored and WiFi: An Experimental Study using GNU-Radio and USRPs	Regular	Sai Krishna Babu and Naveen Kolar Purushothama (Indian Institute of Technology Tirupati, India)
			LALB: An SDN Architecture for Dynamic Load Balancing	Regular	Abha Kumari (IIT PATNA, India); Ashok Singh Sairam (Indian Institute of Technology Guwahati, India)
			OptiGSM: Greedy-Based Load Balancing with Minimum Switch Migration in Software-Defined Networks	Regular	Upendra Prajapati, Bijoy Chand Chatterjee and Amit Banerjee (South Asian University, India)
9	Optical Communications and Networks-II	Main Conference - Day 2, Tuesday, Dec-20-2022, 14:30-16:00	On P4-based Reliability: Path Protection for Programmable Data Planes	Regular	Gioacchino Castorio (University of L'Aquila); Carlo Centofanti and Andrea Marotta (University of L'Aquila, Italy); Fabio Graziosi (University of L'Aquila, Italy)
			Performance Comparison of IRS and DF Relay Assisted Mixed RF-Underwater Optical Communication System	Regular	Rehana Salam (IIIT-DELHI, India); Anand Srivastava (Indraprastha Institute of Information Technology Delhi, India); Vivek A Bohara (Indraprastha Institute of Information Technology, Delhi (IIIT-Delhi), India); Ashwin Ashok (Georgia State University, USA)
			Optical IRS Aided B5G V2V Solution for Road Safety Applications	Regular	Tathagat Pal (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)
			End-to-end Slicing of RAN based on Next Generation Optical Access Network	Short	Carlo Centofanti and Andrea Marotta (University of L'Aquila, Italy); Gudepu Venkateswarlu (IIT Dharwad, India); Dajana Cassioli (University of L'Aquila, Italy); Fabio Graziosi (University of L'Aquila, Italy); Koteswararao Kondepu (Indian Institute of Technology Dharwad, India); Hal Roberts and Chris Bernard (Calix Inc., USA)
10	Security, Privacy, and Trust-II	Main Conference - Day 2, Tuesday, Dec-20-2022, 16:30-18:00	Dynamic network simulation using DeepRMSA in Elastic Optical Networks	Regular	Boyang Hu, Mohammad Majid and Byrav Ramamurthy (University of Nebraska-Lincoln, USA)
			Hierarchical Classic Controllers (HCC) with an Enhanced SVM Method for DDoS Attack Detection in SDN	Regular	Shideh Yavary Mehr (University of Wisconsin - Madison, USA); Byrav Ramamurthy (University of Nebraska-Lincoln, USA)
			Secrecy Maximization for Pico Edge Users in 5G Backhaul HWNs: A Quantum RL Approach	Regular	Himanshu Sharma (Thapar Institute of Engineering and Technology, Patiala, India); Pulkit Nehra (Thapar Institute of Engineering and Technology, Patiala, India); Gitika Sharma (Chandigarh University, Gharuan, India); Neeraj Kumar (Thapar University Patiala, India)
			Behavioral Biometrics based User Authentication Scheme using Machine Learning	Regular	Mukul Dhaka (SVNIT, India); Uday Pratap Rao (S V National Institute of Technology Surat (Gujarat), India); Akhil Chaurasia (SVNIT, India)
	Regular	Md Faieq Ahsan and Utsav Banerjee (Indian Institute of Science, India)			
	Regular	Embedded Software Implementation of Privacy Preserving Matrix Computation using Elliptic Curve Cryptography for IoT Applications			

11	AI/ML for Communications and Networking-I	Main Conference - Day 2, Tuesday, Dec-20-2022, 16:30-18:00	Revenue-Model Learning for a Slice Broker in the Presence of Adversaries	Regular	Md Muhidul Islam Khan and Gianfranco Nencioni (University of Stavanger, Norway)
			Deep Learning Aided Multi-user mmWave massive-MIMO Hybrid Beamforming	Regular	Satish Kumar (International Institute of Information Technology- Naya Raipur, India); Rajarshi Mahapatra (IIT Naya Raipur, India); Anurag Singh (IIT Guwahati, India)
			ML Assisted Feedback Mechanism for TCP Congestion Control in Next Generation Wireless Networks	Regular	Vasanth Kanakaraj, Shreyanshu Agarwal and Keerthi Priya P (Samsung R&D Institute India-Bangalore, India); Vishal Murgai (Samsung R&D Institute, Bengaluru, India); Issac Kommineni (Samsung R&D Institute India-Bangalore, India)
12	Blockchain for Communications and Networking	Main Conference - Day 2, Tuesday, Dec-20-2022, 16:30-18:00	Tailoring the Archimedes Optimization Algorithm to Solve a Generalized Network Design Problem	Regular	Imen Mejri (National Engineering School of Tunis, Tunisia); Safa Bhar Layeb (National Engineering School of Tunis, University of Tunis El Manar, Tunis & LR-OASIS - Optimization and Analysis of Service and Industrial Systems Laboratory, Tunisia); Jawher Koussani (LR-OASIS, National Engineering School of Tunis, University of Tunis El Manar, Tunisia)
			AHP-PCP: AHP based Probabilistic Consensus Protocol for Probabilistic Knowledge-based Blockchains	Regular	Vikas Singh and Shachi Sharma (South Asian University, India)
			Distributed Integrity Auditing of Cloud data using Edge Computing and Blockchain	Regular	Amit Kumar Dwivedi (Indian Institute of Information Technology Vadodara India, India); Naveen Kumar (Indian Institute of Information Technology Vadodara, India); Manik Lal Das (DAICT, India)
13	Energy Efficiency and Harvesting	Main Conference - Day 3, Wednesday, Dec-21-2022, 14:30-16:00	Gas Fee Reduction by Detecting Loop Fusible Patterns in Ethereum Smart Contract	Regular	Kawaldeep Kaur (Malaviya National Institute of Technology, India); Shubham Tomar (Malviya National Institute of Technology, India); Meenakshi Tripathi (MNIT Jaipur, India)
			Incentivization Model for Better Plastic Waste Management using Blockchain	Regular	Susmita Mondal (Indian Institute of Technology Gandhinagar, India); Sameer G Kulkarni (Indian Institute of Technology, Gandhinagar, India)
			Age of Information in a SWIPT and URLLC enabled Wireless Communications System	Regular	Chaturanga Basnayaka (Padukka & SLTC, Sri Lanka); Dushantha Nalin K. Jayakody (Universidade Lusófona, Portugal & University Autónoma de Lisboa, Portugal); Tharindu D. Ponnimbاده Perera (National Research Tomsk Polytechnic University, Russia); Timo Hämäläinen (University of Jyväskylä, Finland); Mario Marques da Silva (Instituto de Telecomunicações & Universidade Autónoma de Lisboa, Portugal)
14	M-Healthcare and Emergency Communications	Main Conference - Day 3, Wednesday, Dec-21-2022, 14:30-16:00	CB-RPL: Coordinator-Based RPL for Energy Efficient Routing Mechanism	Regular	Surajeet Ghosh (Indian Institute of Engineering Science and Technology, Shibpur, Howrah, India); Anirban Chand (Indian Institute of Engineering Science and Technology Shibpur, India)
			MMSE Estimation and Analysis of Maximum Harvested Energy in Green Cooperative Wireless System with Multiple Relays	Regular	B. Sainath (BITS Pilani, India)
			User Equipment Power Consumption Analysis under NLOS Tapped Delay Line Channel Models for 5G Communication	Regular	Bruno Sátiro Silva and Evandro Salvador Marinho Da Silva (SIDIA Institute of Science and Technology, Brazil); Fatima Teixeira (Sida - Institute of Science and Technology, Brazil); Bárbara Regina Xavier Ribeiro Faria (SIDIA Institute of Science and Technology, Brazil)
15	AI/ML for Communications and Networking-II	Main Conference - Day 3, Wednesday, Dec-21-2022, 16:30-18:00	DeepCare: Deep Learning-Based Smart Healthcare Framework using 5G Assisted Network Slicing	Regular	Deborsi Basu (Indian Institute of Technology, Kharagpur & IEEE Student Member, India); Vikram Krishnakumar (Centre of Excellence in Wireless Technology, IIT Madras Research Park, Chennai & IEEE, IEEE ComSoc, India); Uttam Ghosh (Meharry Medical College, USA); Raja Datta (Indian Institute of Technology Kharagpur, India)
			Mesh Network Based Mobile Communication	Regular	Shamika A Hirushan (South Eastern University of Sri Lanka, Sri Lanka); Isuru Shamlika (South Eastern University of Sri Lanka, Sri Lanka); Rajendran Hirshan and Mohamed Abdul Haleem (South Eastern University of Sri Lanka, Sri Lanka)
			Assessment of Cellular Coverage for a Smart Ambulance Use Case	Regular	Radheshyam Singh (Technical University of Denmark, Ørstedts Plads, Kgs. Lyngby Denmark, Denmark); Kalpit Ballal (Danmarks Tekniske Universitet, Denmark); Stanley Chukwuebuka Nwabuona, Michael S. Berger, Lars Dittmann and Sarah Ruepp (Technical University of Denmark, Denmark); Troets Wienecke (SUH, Denmark)
16	Performance Analysis of Communications Systems	Main Conference - Day 3, Wednesday, Dec-21-2022, 16:30-18:00	Real-Time Remote Heart Monitoring Using Cellular IoT Network	Regular	Kalpit Ballal (Danmarks Tekniske Universitet, Denmark); Radheshyam Singh (Technical University of Denmark, Ørstedts Plads, Kgs. Lyngby Denmark, Denmark); Lars Dittmann (Technical University of Denmark, Denmark)
			Heuristic-based Resource Allocation for Cloud-native Machine Learning Workloads	Short	Ayush Shridhar and Deepak Nadig (Purdue University, USA)
			Data Stream Clustering Using Embedding Dimension at Edge Gateway	Regular	Shachi Sharma (South Asian University, India); Ravi Kothari (IBM, India); Obaidullah Ghaswi (South Asian University, India)
16	Performance Analysis of Communications Systems	Main Conference - Day 3, Wednesday, Dec-21-2022, 16:30-18:00	Neural Network Framework for Modulation and Signal Classification	Regular	Swaraj Kumar (Samsung R&D Institute, India); Ashmeet Kaur (BITS-Pilani, KK Birla Goa Campus India); Satya Kumar Vankayala (Samsung R&D Institute Bangalore, India); Issac Kommineni (Samsung R&D Institute India-Bangalore, India); Seungil Yoon (Samsung Electronics, Korea (South))
			InceptCodeNet Based CSI Feedback in Massive MIMO Systems	Regular	Anusaya Swain (NIT ROURKELA, India); Shrishail M Hiremath (NIT Rourkela & Communication and Networks, India); Pravallika Suriseti (National Institute of Technology, Rourkela, India); Sarat Kumar Patra (Indian Institute of Information Technology Vadodara, India); Shivashankarayya Hiremath (Manipal Institute of Technology & Manipal Academy of Higher Education, Manipal, India)
			Is QUIC Quicker with HTTP/3? An Empirical Analysis of Quality of Experience with DASH Video Streaming	Regular	Sindhu Chellappa and Radim Bartos (University of New Hampshire, USA)
16	Performance Analysis of Communications Systems	Main Conference - Day 3, Wednesday, Dec-21-2022, 16:30-18:00	Performance analysis of the Radio Access Technologies (RAT) of Vehicular Communications	Regular	Bhargavi Toparapu and Aparna Behara (IIT Madras, India); Lokesh Bommisetty and Venkatesh Tiruchirai Gopalakrishnan (Indian Institute of Technology Madras, India)
			Analyzing Impact of Different Inter-Arrival Time Distributions on the Performance of IoT Systems	Regular	Prakash Datt Bhatt (South Asian University & Tribhuvan University, India); Shachi Sharma (South Asian University, India)
			Performance Analysis of NOMA System using Fair Power Allocation Policy	Regular	Adarsh Ravi (Indian Institute of Technology Patna, India); Gaurav Pratap Singh and Preetam Kumar (IIT Patna, India)