Special Session on Advances in Smart Antenna Design for 5G and Beyond Communication System

Day 3; 14th March 2026 (Saturday)

Time of Sessions: TS-SSAN-S1 (9:30 AM –11:00 AM); TS-SSAN-S1 (9:30 AM –11:00 AM); TS-SSAN-S2 (12:00 Noon – 1.30 PM); TS-SSAN-S3 (12:00 Noon – 1.30 PM)

Paper ID	Paper Title	Name of the Paper Presenter with affiliation	Name and Affiliation of all Authors	Mode of the Presentation	Session Allocated
3975	Design and Implementation of a LabVIEW-Based Radar Testbed Employing Oscilloscope Data Acquisition and Function Generator–Driven VCO Waveform Generation	Dr. Rohit Mathur (Vellore Institute of Technology, Vellore)	Kaveripakam Mohith Sai(VIT, Vellore), Sujan P(VIT, Vellore), Revathi V(VIT, Vellore), Rohit Mathur(VIT, Vellore)	Offline	TS-SSAN-S1
4014	Phase-Change Material Enabled Metamaterials and Metasurfaces	Shirish Tripathi (NIT Patna)	Shirish Tripathi (NIT Patna), Dr. Vibhu Srivastava (KIET Group Of Institutions), Dr. Ritesh Kumar Mishra (NIT Patna)	Offline	TS-SSAN-S1
4112	A Novel Metamaterial -Integrated Compact Multiband Antenna with Wideband Characteristics Using Intelligent Optimization Technique	Sameer Purohit (LNCT University ,Bhopal)	Author 1-Sameer Purohit (LNCT University, Bhopal), Author 2- Rakesh Singh Rajput (LNCT University, Bhopal)	Offline	TS-SSAN-S1
4192	Compact Wideband Filtering Antenna for Wireless and 5G Application	Ashwanth Ravi Kumar (VIT Vellore)	Ashwanth Ravi Kumar (VIT Vellore), Sathish Krishna (VIT Vellore), Tharan Srinivasan (VIT Vellore), Dilip Kumar Choudhary (VIT Vellore).	Offline	TS-SSAN-S1
4364	Design and Analysis of a Multiband Fractal Antenna for Sub-7 GHz Wireless Applications	Dr. Shailendra Singh Ojha (Ajay Kumar Garg Engineering College Ghaziabad, India)	Shailendra Singh Ojha (AKGEC Ghaziabad), Rachit Jain (Manipal University Jaipur), Neelesh Kumar Gupta (AKGEC Ghaziabad), Bhupendra Dhakad (ITM University Gwalior), Sadhana Mishra (ITM University Gwalior)	Offline	TS-SSAN-S1
4393	Capacity Analysis of Short-Range Terahertz Massive MIMO Systems Using Geometry-Based Stochastic Channel Models	Ms. Aruni Karmakar (Dept. of ECE, GGV, CU)	Aruni Karmakar (Dept. of ECE, GGV - CU, BILASPUR), Pankaj Shankar Shrivastava (Dept. of ECE, GGV - CU, BILASPUR), Bhanu P. Singh (Dept. of ECE, GGV - CU, BILASPUR)	Offline	TS-SSAN-S1
4418	A Comprehensive Review on Machine Learning and Metasurface/Metamaterial Driven MIMO Antenna for mmWave Applications	Preksha B V (School of Engineering and Technology, CMR University, Bengaluru, Karnataka, India)	Preksha B V (CMR University, Bengaluru), Brijesh Mishra (CMR University, Bengaluru), Bhagyaprasad (CMR University, Bengaluru), Pratham T R (CMR University, Bengaluru) and Bhavya N (CMR University, Bengaluru)	Offline	TS-SSAN-S1
4490	Performance Improvement of Printed Monopole Antenna using Frequency Selective Surface	Dr. Gourab Das (PEC Chandigarh)	Harshit Kaundal (PEC Chandigarh), Jasbir Kaur (PEC Chandigarh), Arun Kumar Singh (PEC Chandigarh), Gourab Das (PEC Chandigarh)	Offline	TS-SSAN-S2
4491	Polymide based Triple-Band Conformable Wearable Antenna for On-body Biomedcial Applications	Avinash Chandra	Sandhya R (School of Electronics Engineering, Vellore Institute of Technology, Vellore), Dr. Avinash Chandra (School of Electronics Engineering, Vellore Institute of Technology, Vellore)	Offline	TS-SSAN-S2
4498	Evaluation of Spatial Spectral and Attention Based Models for Motor Imagery EEG Classification	Dr. Jaskirat Kaur	Bhanu Devi, Dr. Jaskirat Kaur, Arun Kumar Singh Affiliation Punjab Engineering College(Deemed to be University),Chandigarh, India.	Offline	TS-SSAN-S2
4516	A Blockchain-Assisted Hybrid AI and LLM Framework for Misbehavior Detection in Connected Autonomous Vehicles	Sameer Yadav, ABV-IIITM Gwalior	Sameer Yadav, Mihir Bhatt, Ashutosh Kumar, Amrendra Singh Yadav, ABV-IIITM Gwalior, India	Offline	TS-SSAN-S2
4543	High-Speed Adder Design: Propagation Delay Comparison of CMOS RCA and CLA	Disha M. (MANIPAL INSTITUTE OF TECHNOLOGY, MANIPAL)	Author 1 Disha M. (MIT, Manipal), Author 2 Preethika K (MIT, Manipal), Author 3 Padilam Adithya Taran Yadav (MIT, Manipal) , Author 4 Jyothsna Naveen (MIT, Manipal) , Author 5 Arjun Sunil Rao (MIT, Manipal) , Author 6 Jennifer Charlotte Saldanha (AJIET, Mangalore)	Offline	TS-SSAN-S2
4668	A Compact Frequency-Reconfigurable Monopole Antenna Using PIN-Diode-Controlled Parasitic Stubs for IoT Applications	Mr. Anvesh Pandey (MNNIT Allahabad, Prayagraj)	Mr. Anvesh Pandey (MNNIT Allahabad, Prayagraj), Dr. Arun Kumar Saurabh (MNNIT Allahabad, Prayagraj)	Offline	TS-SSAN-S2
4581	Circularly Polarized DRA Antenna with Double Split-Ring Resonator Filtering for 5G Applications	Akhilesh Kumar	1st Akhilesh kumar, E.C.E.D. MNNIT Allahabad, India, 2nd Dr.Vinay Kumar E.C.E.D.MNNIT Allahabad, India	Offline	TS-SSAN-S2
4620	Performance Analysis of a Miniaturized Dual Band Zeroth Order Resonant Metamaterial Antenna for Distinct Wireless Applications	Dr. Naveen Mishra, VIT Vellore	1. Dhruv Rungta (VIT Vellore), 2. Astha Jaiswal (VIT Vellore), 3. Punya Keerthana Mucheli (VIT Vellore), 4. Aashmit Bharadwaj Padhi (VIT Vellore), 5. Sanjeev Adithya (VIT Vellore), 6. Naveen Mishra (VIT Vellore)	Offline	TS-SSAN-S3

ID	Title	Presenter	Authors	Mode	Session
4633	QUADRIFILAR HELIX ANTENNA SATELLITE RECEIVER ANTENNA	HIMANSHU K H CAMBRIDGE INSTITUTE OF TECHNOLOGY	Author 1 Himanshu K H (CIT), Author 2 Kanishk R M (CIT),Author 3 Jagadish R (CIT),Author 4 Mohammed Ataur Rahaman (CIT), Author 5 Lakshmi C R(CIT),Author 6 Nandini Kumari B (CIT)	Offline	TS-SSAN-S3
4661	Enhancing Crop Disease Identification Using an Ensemble of Pretrained CNN Feature and SVM	Manish Mandloi, Department of ICT, PDEU Gandhinagar, India	Author 1 Nadeem Akhtar (Department of Electrical Engineering, R. C. Patel Institute of Technology, Shirpur), Author 2 Manish Mandloi (Department of ICT, PDEU Gandhinagar), Author 3 Rehan Ahmad (SVKM's NMIMS, MPSTME Shirpur), Author 4 Rashmi Bhattad (Department of ICT, PDEU Gandhinagar)	Offline	TS-SSAN-S3
4663	Design and Implementation of a Real-Time ASL-Based IoT Control System Using Raspberry Pi	Dr. Manish Mandloi (PDEU Gandhinagar)	Author 1 Kartikay Rastogi (Department of ICT, PDEU Gandhinagar), Author 2 Karm Patel (Department of ICT, PDEU Gandhinagar), Author 3 Kamal K. Garg (Department of ICT, PDEU Gandhinagar), Author 4 Manish Mandloi (Deparment of ICT, PDEU Gandhinagar)	Offline	TS-SSAN-S3
4666	BER Analysis of ACO-OFDM, DCO-OFDM, and OOK in Indoor VLC: Impact of SNR, Responsivity, FoV and OAM Order	Prayash Mishra (School of Technology, Pandit Deendayal	1. Prayash Mishra (School of Technology, Pandit Deendayal Energy University, Gandhinagar, India)	Offline	TS-SSAN-S3
4669	Evaluating Landmark Redundancy in Pose-Based Fall Detection Systems	Pradip Chotara(MANIT)	Pradip Chotara(MANIT), Yadunath Pathak(MANIT)	Offline	TS-SSAN-S3
4670	Deep Spatio-Temporal Modeling for Faller Identification in Geriatric Populations using Foot-Mounted Inertial Sensors	Shubham Vishwakarma (MANIT, Bhopal)	Shubham Vishwakarma (Maulana Azad National Institute of Technology, Bhopal), Yadunath Pathak (Maulana Azad National Institute of Technology, Bhopal)	Offline	TS-SSAN-S3
4671	{Multi-Resolution Fall Transformer: A Dual-Branch Transformer for Wrist-IMU Fall Detection Using WEDA-FALL and FallAllD Datasets	Milan Mondal	Milan Mondal, Dr Yadunath Pathak	Offline	TS-SSAN-S3
4187	Triple-Stream Ensemble Fusion for Resilient Multi-Modal Human Action Recognition: Addressing Generalization in Co-located Sensing	Suraj Shandilya, Vellore Institute of Technology, Vellore, India	Suraj Shandilya, Mahendra Siyag, Muskan Kumari, and Rajkishor Kumar, School of Electronics Engineering, Vellore Institute of Technology, Vellore, India	Offline	TS-SSAN-S3
4667	Design and Analysis of Wide Band Terahertz Antenna	Khushi Sachan	Jayant Rai*; Khushi Sachan; Shubham Kumar; Pinku Ranjan; Rakesh Chowdhury; Shriram Gupta	Offline	TS-SSAN-S2