

Day 1 -Presentation

Session 1 (From 2:30 PM to 5 PM)

Track 1 Geoscience Remote Sensing

SNO	Paper ID	Title
1	65	Geo-AI Based Shoreline Change Classification Using Landsat Imagery and Transect-Derived EPR
2	99	River Basin Analysis with Geospatial Data
3	126	INSAT-3DR/3DS-Based Spatiotemporal Studies on Land Surface Temperature, Precipitable Water Vapour and Surface-Atmosphere Coupling over Contrasting Climatic Environments of India
4	134	Flood Susceptibility Mapping of Sagara Taluk of Karnataka using an Ensemble-based Tree Technique
5	142	Analytical Evaluation of Automatic Image Registration Algorithm for Different Elevation Areas
6	152	Identification of Potential Fishing Zones in Loktak Lake Using Multispectral Satellite Data and GIS-Based Multi-Criteria Analysis
7	154	A Semi-Automated Siamese Swin Transformer Framework for Land Use Change Detection in Kerala

Session 2 (From 2:30 PM to 5 PM)

Track 2 Antennas and Communication

8	15	Design and Optimization of a Reflection less Microstrip Coupled Line Band Pass Filter for 5G applications
9	17	Performance Optimization of OWC Channels in Adverse Fog Conditions
10	28	Design of a Compact Wideband CPW-Fed Antenna Using Stub Loading and Hybrid Defective Ground Structure
11	30	Design and Analysis of a Slot-Loaded Concentric Microstrip Patch Antenna for Ka-Band Communication Systems
12	43	Wideband Elliptical Ring Antenna with Defected Ground Structure for High Resolution Microwave Imaging
13	60	IoT Framework for Real-Time Patient Monitoring in Emergency Transfers

14	61	Design and Development of a CPR Feedback Device Using STM32 and MPU6050
15	76	Efficient and Environmentally Robust Miniaturized PIFA for the 915 MHz ISM Band
16	85	Wearable Devices in IoT: Performance Analysis and Simulation Results for Healthcare Monitoring Systems
	Day 2 -Presentation	
	Session 3 (2:30 PM to 5 PM)	
	Track 1 Geoscience Remote Sensing	
17	159	Initial Performance Assessment of INSAT-3DS Imager Visible and SWIR Channels over Different Land Types
18	222	A Comparative Study of Scalable Deep Learning Architectures for Large-Scale VNIR Spectral Mineral Classification
19	231	An AI-Integrated Spatial Intelligence System for Coordinated Disaster Rescue and Missing Person Identification
20	235	Deep Learning-Based ScanSAR Descalloping Using Stacked Corrective Skip Bottleneck
21	239	A Multi-Country Spatiotemporal Machine Learning Framework for Methane Hotspot Detection Using Satellite Observations
22	251	Legal Insights on Remote Sensing Regime in India: A Critique
23	252	Climate-Driven Shoreline Change Prediction Along the Western Ghats Coast Using Remote Sensing, DSAS-WLR, and Ensemble Machine Learning
24	242	A Multi-Country Spatiotemporal Machine Learning Framework for Methane Hotspot Detection Using Satellite Observations
	Session 4 (2:30 PM to 5 PM)	
	Track 3 Photonics	
25	173	Design, development and characterization of a FBG sensor embedded inside TPU for wearable applications
26	228	Potentially-Tuned High-Performance Plasmonic Based Electro-Absorption Modulator
27	243	Design and Development of a Gradient Boosting Reinforcement Learning Framework for Real-Time Object Movement Tracking using FBG Sensor Networks
28	289	Terahertz/Far-IR Reflectance of Ultrasonic Machined Quartz Gratings with Electroless Nickel (EN) Deposition.

29	311	Bias Detection, Mitigation, and Explainability in Machine Learning Models
30	327	Numerical Analysis of a Silver–Dielectric Plasmonic Ring Resonator for High Sensitivity Refractive Index Biosensing Application
31	Sandeep K V	

Session 5 (2:30 PM to 5 PM)

Track 2 Antennas and Communication

32	86	A Compact Rectangular Patch Antenna for Ultra-Wideband Wireless Body Area Networks and Health Care Systems
33	87	An Intelligent Symbolic Data Acquisition System for Thermal Application
34	92	Stub Loaded Inset Fed Body Mounted Textile Antenna for Wearable Applications
35	137	Design and Analysis of a Novel Multi-Band Star Shaped Fractal Antenna for Energy Harvester Applications
36	157	Performance Evaluation of Channel Decomposition Techniques for IRS-Aided mmWave Massive MIMO under Challenging Propagation Environments
37	176	Energy-Neutral Battery-Free IoT Networks Enabled by Reconfigurable Intelligent Surfaces
38	194	Design of a Flexible Wool Substrate Reconfigurable Dual Band PIN Diode Antenna Control for Wearable Communication Systems
39	208	Performance - Optimized Metamaterial -Based MIMO Antenna for High-Gain Sub 6 GHz 5G Applications
40	209	Design of a Compact MIMO Antenna with Enhanced Bandwidth and Gain for 5G mid band Networks

Day 3 -Presentation

Session 6 (9:30 AM- 1:00 PM)

Track 2 Antennas and Communication

41	211	Design and Analysis of Ultra-Wideband Antennas for Early Detection Of Breast Cancer
42	212	High-Gain 5 GHz Antenna Design: From Single-Element to Two-Element Array Configurations
43	215	Performance Evaluation of eMLSR in Multi-Hop Ad-Hoc WiFi Networks Under Varying Load
44	224	Design and Optimization of a Compact two element MIMO Antenna for 5G NR Sub-6 GHz n78 Band Applications
45	240	A Compact Uni-Spine Slot-Loaded Patch Antenna for C-Band Wireless and UAV Communication Systems

46	241	Design and Performance Analysis of An Elliptical Patch Antenna with Circular Slots for C-Band Applications
47	247	Broadband Corporate-Fed Planar Microstrip Antenna with Circular Radiating Elements for Ku-Band Applications
48	271	Design of a Compact Microstrip Patch Antenna for 6 GHz Wi-Fi Applications
49	274	Design and Verification of a Single-Qubit Hadamard Gate Using Verilog and Bloch Sphere Analysis for Quantum Computing
50	287	State-Scale Multi-Class Land Cover Mapping via Time-Weighted Dynamic Time Warping on Fused Sentinel-1/2 Time Series: A Python-Native Scalable Pipeline
51	290	Controlled Reception Pattern Antenna Null Steering Design and Analysis Tool

Session 7 (9:30 AM- 1:00 PM)

Track - 1 Geoscience Remote Sensing

52	293	Explainable Spatial Reasoning Analysis of CNN and Vision Transformers for Geospatial Intelligence
53	308	Pseudo-Temporal 3D Convolutional Network for Multi-Modal Satellite Flood Mapping
54	309	Performance Evaluation of Multimodal Pseudo-Siamese Network for Data-Efficient Flood Segmentation
55	315	A NOVEL DUAL POLARIMETRIC BARE SOIL QUALITY INDEX FOR THE SEMI-ARID REGIONS
56	317	SPATIAL CHARACTERIZATION OF URBAN ENERGY EFFICIENCY BY INTEGRATING VIIRS NIGHT-TIME LIGHT AND SENTINEL-1 SAR DATA
57	318	Integration of Mobile LiDAR, 360° Panoramic Imagery, and High-Resolution Satellite Data for Accurate Building Footprint Mapping
58	319	Comparative Analysis of efficient and attention based CNNs for FPGA oriented medical images classification
59	328	Disease Severity Index for Arecanut plantation using Hyperspectral Remote Sensing

Session 8 (2:00 PM - 4:00 PM)

Track 2 Antennas and Communication

60	292	Multiple Moving Target Detections and Tracking for Automotive Applications using OFDM
61	304	Implementation of an IoT-Enabled Automated Radar Defense System
62	305	Development and Performance Analysis of Stacked Microstrip Patch Antenna for 5G Millimeter-Wave Communication

63	312	Reduction of Specific Absorption Rate in smart mobile phones by Planar Inverted F Antenna Protection Mechanism for sub 6 GHz applications
64	314	Dual-Band Terahertz Metamaterial Absorber with Enhanced Sensing capabilities
65	320	Design of Dielectric filled Microwave Antenna for Non-destructive Evaluation of Defects in Dielectric Material
Session 9 (2PM- 4:00PM)		
Track Common (online)		
66	129	Design and Analysis of THz Metamaterial Using Modified Circular Shape Split Ring Resonator
67	140	Design of an Octagonal shaped 4 element MIMO Antenna with Defected Ground and CSRR Coupling
68	256	Design and Analysis of a Low-Profile Dual-Band Wearable Antenna for WBAN Applications
69	321	Bias Detection, Mitigation, and Explainability in Machine Learning Models
70	323	Securing Large Language Models By Mitigating The Challenges Of Prompt Injection Attacks
71	324	An Efficient CvT-Based Framework with EMA and TTA for Galaxy Morphology Classification