

TS-1A: 3 Dec 2024 (15:45 to 17:30)

GT 1: Hyperspectral Remote Sensing (Session Chairs: Dr. Anil Kumar, IIRS and Prof. Rama Rao Nidamanuri, IIST)

Paper ID		Paper Title	Authors
	Lead Talk 15:45 - 16:05	Recent Advances in Hyperspectral Remote Sensing: Innovations, Challenges, and Future Perspectives	Dr Rahul Raj, Principal Research Scientist, Pixxel
146	p1 16:05 - 1617	NON-DESTRUCTIVE QUALITY EVALUATION OF CONCRETE THROUGH HYPERSPECTRAL IMAGING ANALYSIS	Ishtiaq Ahmed* (Indian Institute of Technology Roorkee)*; Umesh Kumar Sharma (Indian Institute of Technology Roorkee); Pradeep Kumar Garg (Indian Institute of Technology Roorkee); Aditya Kumar Thakur (Indian Institute of Technology Roorkee)
521	p2 1617 - 1629	VISION TRANSFORMER-DRIVEN LIDAR DATA FUSION FOR ENHANCED HYPERSPECTRAL IMAGE CLASSIFICATION	Srinadh Reddy Bhavanam (Clemson University)*
236	p3 1629 - 1641	UNSUPERVISED BAND SELECTION FOR HYPERSPECTRAL IMAGE CLASSIFICATION USING MUTUAL INFORMATION BASED CLUSTERING	Abhishek Dey (Bethune College); Susmita Ghosh (Jadavpur University)*; Ashish Ghosh (International Institute of Information Technology, Bhubaneswar)
331	p4 1641 - 1653	Deep-learning-based hyperspectral target detection framework for imaging spectroscopy-based source, complex acquisition environments and geometry	Sudhanshu Shekhar Jha (Indian Institute of Science)*; Rama Rao Nidamanuri (Indian Institute of Space Science and Technology)
134	p5 1653 - 1705	Spectral Spatial Classification of Hyperspectral Image by Exploiting Extended Threshold-Free Attribute Profile and Transformer-Encoder Based Network	Kaushal Bhardwaj (Bennett University)*; Dr. Swarnajyoti Patra (Tezpur University)

TS-1B: 4 Dec 2024 (9:30 to 11:00)

GT 1: LiDAR Remote Sensing (Session Chair: Prof. Rama Rao Nidamanuri, IIST and Prof. Biplab Benerjee, IIT Bombay)

Paper ID		Paper Title	Authors
266	Lead Talk 9:30 – 9:50	Improving GEDI AGB Estimation in South Asian Tropical Forests – Towards Synergistic Calibration with NISAR	Suraj Reddy Rodda (NRSC/ISRO)*; Gopalakrishnan Rajashekar (NRSC/ISRO)
54	p1 9:50 – 10:02	Terrestrial and Aerial LiDAR Dataset of Individual Trees in the Shivalik Range, India	Moonis Ali* (Department of Civil Engineering, IIT Kanpur)*; Apratim Biswas (Department of Civil Engineering, IIT Kanpur); Anna Iglsteder (Department of Geodesy and Geoinformation, TU Wien); Vinod Kumar (Haryana Forest Department); Shant Kumar (Institute of Environmental Studies, Kurukshetra University, Kurukshetra, Haryana); Bharat Lohani (Department of Civil Engineering, IIT Kanpur); Sandeep Gupta (Institute of Environmental Studies, Kurukshetra University); Markus Hollaus (Department of Geodesy and Geoinformation, TU Wien); Norbert Pfeifer (Department of Geodesy and Geoinformation, TU Wien)
238	p2 10:02 – 10:14	3D-PETLN: Fine-Tuning 3D Patch Extraction in Hyperspectral Remote Sensing Data with Transfer Learning	Ravikant Kumar Nirala* (NIT Delhi)*; Gautam Kumar (NIT Delhi); Rishav Singh (IIT Patna); Chandra Prakash (SV National Institute of Technology Surat,)
254	p3 10:14 – 10:26	GEDI waveform simulation and assessment using point cloud data collected using Terrestrial Laser Scanner	Akshay Paygude* (Indian Institute of Remote Sensing)*; Hina Pande (Indian Institute of Remote Sensing); Poonam Tiwari (Indian Institute of Remote Sensing)
381	p4 10:26 – 10:38	FOREST METRICS AND INDIVIDUAL TREE ATTRIBUTES EXTRACTION FROM AIRBORNE LASER SCANNING POINT CLOUDS	Dheerendra Pratap Singh (Galgotias University Greater Noida)*
99	p5 10:38 - 10:50	VALIDATION OF ICESAT-2 ATLAS DATA USING AIRBORNE LIDAR OVER GODAVARI RIVER BASIN	Anilkumar G (National Remote Sensing Centre); Runjhun Chandra (National Remote Sensing Centre)*; Narender B (National Remote Sensing Centre)

		TS-2A : 4 Dec 2024 (9:30 to 11:00)	
GT 2: SAR Imaging and Processing Techniques-1 (Session Chairs: Prof. Unmesh Khati, IIT Indore and Dr. Shashi Kumar, IIRS)			
Paper ID		Paper Title	Authors
	Lead Talk 0930 - 0950	SAR Tomography	Prof. Unmesh Khati, IIT Indore
14	p1 0950 - 1002	SAR RECONNAISSANCE: UNVEILING TARGET RECOGNITION VIA PRETEXT AND DOWNSTREAM METHODOLOGIES	Ashad Vali P* (Acharya Institute of Technology)*; Akhil R (Acharya Institute of Technology); Chetana K S (Acharya Institute of Technology); Vijayashekar Siddappa S Sankannavar (Acharya Institute of Technology)
25	p2 1002 - 1014	PERFORMANCE ASSESSMENT OF ISRO'S EOS-04 INTERFEROMETRIC SAR DATA WITH USGS GPS FOR GEODETIC PRECISION IN DEFORMATION MONITORING: A CASE STUDY OF MAUNA LOA VOLCANO	AAKASHNEEL BASAK (NRSC, ISRO)*; SAMVRAM SAHU (NRSC, ISRO); P V Jayasri (ISRO); USHA SUNDARI RYALI H S V (NRSC, ISRO)
42	p3 1014 - 1026	Design of Scalable Software Architecture for Spotlight SAR Imaging on UAV Platform	reena kandari (DRDO)*; kadali lokesh kiran (DRDO); Vaidya Dhaval Kumar B (DRDO)
90	p4 1026 - 1038	HARNESSING THE POWER OF GPUS FOR NISAR DATA SIMULATION & PROCESSING	Shubham Gupta (Space Applications Centre, ISRO)*; Vatsalya Gupta (Space Applications Centre, ISRO); Krishna Murari Agrawal (Space Applications Centre, ISRO)
63	p5 1038 - 1050	Automatic Bridge Detection Using SAR Satellite Imagery	Kavita Anil Malviya (Indian Institute of Remote Sensing, ISRO)*; Ashish Joshi (Indian Institute of Remote Sensing, ISRO)

TS-2B: 4 Dec 2024 (11:15 – 13:00)			
GT 2: SAR Imaging and Processing Techniques-2 (Session Chairs: Dr. Ajay Maurya, NIT Patna and Prof. Unmesh Khati, IIT Indore)			
Paper ID		Paper Title	Authors
	Lead Talk 1115 – 1135	EOS-04/RISAT-1A: A way forward with polatimetirc modes and applications	Swati D. Sukla, SAC/ISRO
544	p6 1135 - 1147	Evaluating the transferability of a Bistatic Radiative Transfer Model to Monostatic Scattering for wheat crop with Sentinel-1 SAR Dual Polarimetric data.	SUMANA KHAMRAI* (IIT (BHU) VARANASI)*; Dr. Rajendra Prasad (IIT (BHU) VARANASI); Suraj A Yadav (Mississippi State University); Shubham K Singh (Tufts University); Gulab Singh (IIT BOMBAY); Prashant K. Srivastava (Banaras Hindu University); Muskan Dua (IIT (BHU) VARANASI)
233	p7 1147 - 1159	A NOVEL MODIFIED GOLDSTEIN PHASE FILTER FOR PSInSAR BASED LINE OF SIGHT (LOS) DISPLACEMENT MAPPING OF JAKARTA, INDONESIA	Prashant Kumar (Indian Institute of Technology (IIT) Patna)*; Luvkesh Attri (Indian Institute of Technology (IIT) Bombay); Sudhanshu Ranjan (Indian Institute of Technology (IIT) Patna); Akshar Tripathi (IIT PATNA); Amit Verma (IIT PATNA); Praveen Kumar (Indian Institute of Technology (IIT) Patna); TN Singh (Indian Institute of Technology (IIT) Patna)
258	p8 1159 - 1211	Analysis of Complex Valued Neural Network for SAR Image Classification	Gaurav Kumar Dashondhi (Bennett University)*; Girjesh Dasaundhi (Indian Institute of Technology Bombay); Arun P V (IIIT Sri City); Mayank Swarnkar (Indian Institute of Technology (BHU))
129	p9 1211-1223	Edge Preserving Multiplicative Noise Removal of SAR images through Convolutional Neural Network and Anisotropic Diffusion	Swarna Aishwarya Twinkle (Birla Institute of Technology, Mesra)*; Supreeti Kamilya (Birla Institute of Technology, Mesra); Jit Mukherjee (Birla Institute of Technology Mesra)
346	p10 1223-1235	Man-Made Post-Strike Damage Assessment (PSDA) using Back Scattering and Time Average of Synthetic Aperture Radar (TA-SAR) Imagery in War Zone	Baljeet Singh Cheema (IT Bombay)*; Ajay Kumar (Indian Institute of Technology Bombay); Gulab Singh (IIT Bombay)
60	p11 1235-1247	APPLICATION OF ENTROPY BASED ADAPTIVE THRESHOLDING AND PHASE RETRIEVAL TECHNIQUE FOR TARGET DETECTION AND IDENTIFICATION IN GROUND PENETRATING RADAR	Mandar K. Bivalkar* (Somaiya Vidyavihar)*; Sheetal Jagtap (K. J. Somaiya IT); Abhay Gaikwad (Babasaheb Naik College of Engineering)

TS-2C: 4 Dec 2024 (14:00 to 15:30)

GT 2: SAR and InSAR: Urban Applications (Dr. Anup Das SAC/ISRO and Dr. Ajay Maurya, NIT Patna)

Paper ID		Paper Title	Authors
187	p12 1400-1412	Assessment of vertical Subsidence in urban area using MT InSAR	Dheeraj . (Indian Institute of Technology of Bombay)*; Ajay Kumar (Indian Institute of Technology Bombay); Priyanka . (Sai Nath University); Gulab Singh (IIT Bombay)
390	p13 1412-1424	Urban Change Detection using Back Scattering & Synthetic Aperture Radar (SAR) Time Series Analysis (SAR-TSA) with High Resolution SAR Imagery	Baljeet Singh Cheema (IT Bombay)*; Ajay Kumar (Indian Institute of Technology Bombay); Gulab Singh (IIT Bombay)
136	p14 1424-1436	Urban Change Detection and Prediction using SVM and CA Markov Model for Prayagraj City	JITENDRA JITENDRA (IIIT Allahabad)*; Triloki Pant (IIIT Allahabad, Prayagraj)
330	p15 1436-1448	EXPLORING THE RELATIONSHIP BETWEEN BUILDING HEIGHT AND SENTINEL-1 SAR GRD BACKSCATTER AT PIXEL AND BUILDING FOOTPRINT LEVELS	Kunal Bansal* (IIT Roorkee)*; Prakhar Misra (IIT Roorkee)
173	p16 1448-1500	Identifying Sandstorm-Affected Railway Networks Due to Sand Accumulation Using InSAR Coherence Change Detection Analysis	Bala Raju Nela (GEOFEM)*; Skevi Perdikou (GEOFEM); Divya Sekhar Vaka (GEOFEM)
208	p17 1500-1512	Ground surface-object monitoring using multi-temporal High resolution SAR data	Srivally MV (ADRIN)*

TS-2D: 4 Dec 2024 (1545-1730)			
		CCS 11: Decadal Breakthrough in MT-InSAR Technique for Precise Monitoring of Earth's Processes	(Session Chairs: Dr. Chandrakanta Ojha, IISER Mohali and Dr. Dharmendra Pandey, SAC/ISRO)
Paper ID		Paper Title	Authors
Paper ID	Lead Talk 1545-1605	A New Era in Monitoring Earth's Surface Dynamics and Environmental Impact Assessment With Advanced MT-InSAR	Dr. Chandrakanta Ojha, IISER Mohali
315	p18 1605-1617	Flood Mapping Using Combined Sentinel-1 Amplitude and Interferometric Coherence	Shagun Garg (University of Cambridge)*; Antara Dasgupta (RWTH Aachen); Mahdi Motagh (GFZ Potsdam); Sandro Martinis (German Remote Sensing Data Center (DFD), DLR); Edoardo Borgomeo (University of Cambridge); Sivasakthy Selvakumaran (University of Cambridge)
24	p19 1617-16	Assessing Land Deformation in Trivandrum City, Southwest India, Using Time Series InSAR Analysis	Arpan Mr. Shastri (SAC ISRO)*; Sreejith KM (Space Applications Center); Dr. Chandrakanta Ojha (IISER Mohali)
113	p20 1629-1641	SURFACE DEFORMATION MONITORING OVER THE KAMRUP METROPOLITAN DISTRICT OF NORTHEAST INDIA USING MT-INSAR TECHNIQUE	Sharmistha Sonowal* (IISER MOHALI, DEPT. OF EES)*; Dr. Chandrakanta Ojha (IISER Mohali)
114	p21 1641-1653	COASTAL SUBSIDENCE CONTRIBUTING TO RELATIVE SEA-LEVEL RISE: A CASE STUDY ON GUJARAT'S CITIES ALONG THE GULF OF KHAMBHAT, INDIA	Sona Sharma* (IISER Mohali)*; Dr. Chandrakanta Ojha (IISER Mohali)
19	p22 1653-1705	MONITORING RAPID LAND SUBSIDENCE IN CHANDIGARH DISTRICT IN NORTH INDIAN REGION USING MT-INSAR TECHNIQUE'	Shivam Chawla* and Dr. Chandrakanta Ojha (IISER Mohali)
414	p23 1705-1717	EVALUATING THE SPATIAL AND TEMPORAL PATTERNS OF SUBSIDENCE IN THE CAUVERY DELTA USING MULTI-TEMPORAL INTERFEROMETRIC SAR TECHNIQUE	PURNEEMAA R S (VELLORE INSTITUTE OF TECHNOLOGY); Surendar Manickam (Vellore Institute of Technology)*

TS-3: 4 Dec 2024:(11:15-13:00)			
GT:3 EOS-4/RISAT-1A (Ms. Usha Sundari Ryali, NRSC/ISRO and Ms. Swati D. Sukla, SAC ISRO)			
Paper ID		Paper Title	Authors
Lead Talk 1115 – 1135		EOS-4 Mission	Ms. Usha Sundari Ryali, NRSC/ISRO and Rama Rao N., IIST
225	p1 1135-1147	SEA AND LAND SEGMENTATION BASED ON PIX2PIX COMPARED TO FCM USING EOS-04 SAR IMAGES	Wasim Akram (Indian Space Research Organization)*; Raghav Mehra (Indian Space Research Organization); Jalpa Modi (Space Applications Centre (ISRO)); Pranay V Patel (Charusat University)
164	p2 1147-1159	FRAMEWORK FOR GENERATING ANALYSIS READY SAR MOSAIC DATA PRODUCTS: EOS-04, EOS-09 AND NISAR PERSPECTIVE	Raghav Mehra (Indian Space Research Organization)*; Wasim Akram (Indian Space Research Organization); Manavala Ramanujam Venugopalan (Indian Space Research Organization)
103	p3 1159-1211	AUTOMATIC EXTRACTION OF BUILT-UP AREAS USING EOS-04 SAR DATA	Arnav Dutta (Indian Institute of Remote Sensing)*; Ashish Joshi (Indian Institute of Remote Sensing)
457	p4 1211-1223	MONITORING OF OIL SPILL POLLUTION USING EOS-04 C-BAND SAR OVER BOMBAY HIGH FIELD - A PRELUDE TO NISAR	Swapna Mulukutla (National Remote Sensing Centre)*; Rajesh S (National Remote Sensing Centre); Rabindra K N (National Remote Sensing Centre); Nagamani P V (National Remote Sensing Centre); Srinivasa Rao G (National Remote Sensing Centre); Rajashree V B (National Remote Sensing Centre); Prakash Chauhan, (National Remote Sensing Centre)
479	p5 1223-1235	SCATTERING POWER INDEX TO MONITOR URBAN AND NON-URBAN AREA USING G5U DECOMPOSITION MODEL	Rashmi Malik* (IIT Kanpur)*

TS-4A: 5 Dec 2024 : (9:30 to 11:00)

GT 4: Cryosphere:(Session Chairs: Dr Debmita Bandyopadhyay, MoES and Naveen Kumar Tripathi SAC/ISRO)

Paper ID	Time Slot	Paper Title	Authors
93	p1 0930-0942	Permafrost Degradation Monitoring using MT SBAS InSAR	Ajay Kumar* (Indian Institute of Technology Bombay)*; Gulab Singh (IIT Bombay)
186	p2 0942-0954	Dynamics of Surge Glaciers in the Karakoram Region: Analyzing Elevation Change, Velocity, and Glacier Front Advances Using 30 Years of Remote Sensing Data	Girjesh Dasaundhi* (Indian Institute of Technology Bombay)*
320	p3 0954-1006	CHANGE IN GLACIER AREA AND VELOCITY IN THE UPPER ZANSKAR BASIN, WESTERN HIMALAYA, INDIA	VARSHA PREM (Amrita Vishwa Vidyapeetham)*; Remya S N (Amrita Vishwa Vidyapeetham); Vishnu Nandan (Amrita Vishwa Vidyapeetham); Advait S Pillai (Amrita Vishwa Vidyapeetham)
376	p4 1006-1018	Glacier change analysis of glaciers in Chandra basin, Western Himalaya during 1965-2023	Dheerendra Pratap Singh (Galgotias University Greater Noida); Rakesh Sahu (CHANDIGARH UNIVERSITY)*
389	p5 1018-1030	Snow Depth Modelling Using Hybrid Optical – SAR Approach	Bhawana . (Indian Institute of Technology Guwahati); Ritu Anilkumar (Indian Institute of Technology Guwahati)*; Manmit Kumar Singh (Indian Institute of Technology Guwahati (IITG)); Rishikesh Bharti (Indian Institute of Technology Guwahati)
530	P6 1030-1042	INCREASING LIGHTNING ACTIVITY IN THE ARCTIC REGION - A CASE STUDY	Saurabh Das (Indian Institute of Technology Indore)*; Kavita . (Indian institute of technology, Indore)
400	P7 1042-1054	INFERRING SURFACE MELT VARIABILITY OVER AMERY ICE SHELF USING RADAR BACKSCATTERS FROM SCATTEROMETER AND SYNTHETIC APERTURE RADAR (SAR) SENSOR	Pooja Mishra* (M.G.Science Institute, Ahmedabad)*; Naveen Tripathi (Space Applications Centre, ISRO); Purvee Joshi (Space Applications Centre, ISRO); Paras Solanki (M.G.Science Institute, Ahmedabad); S. K. Singh (Space Applications Centre, ISRO)

GT 4: Cryosphere (Session Chairs: Dr Debmata Bandyopadhyay, MoES)

405	p7 1115-1127	Multi-Model Approach to Monitor Surface Velocity of Gangotri Glacier using SAR Images	Hari Shankar (Indian Institute of Remote Sensing Dehradun)*; Ravi Bhandari (Indian Institute of Remote Sensing Dehradun); Dharmendra Singh (Indian Institute of Technology Roorkee); Prakash Chauhan (National Remote Sensing Centre Hyderabad)
443	p8 1127-1139	Monitoring the calving and frontal changes on Lazarev and Nivlisen Ice Shelf, East Antarctica.	Margi G Bhetaria (Gujarat University)*; Purvee Joshi (Space Applications Centre, Ahmedabad); Sushil Kumar Singh (Space Applications Centre, Ahmedabad); Sandip Oza (Space Applications Centre, Ahmedabad (Retired)); Pankaj Gajjar (Gujarat University)
545	p10 1139-1151	High-Resolution Monitoring of Supraglacial Lakes in Bara Sigri Glacier from 2017 to 2024 Using PlanetScope and Google Earth Engine	Vandana L (IIT Bombay)*; Gulab Singh (IIT Bombay)
57	p11 1151-1203	SNOW GEOPHYSICAL PARAMETERS RETRIEVAL USING PRISMA HYPERSPECTRAL DATA OVER THE SOUTH LHONAK GLACIER REGION	Manmit Kumar Singh* (Indian Institute of Technology Guwahati (IITG))*; Rishikesh Bharti (Indian Institute of Technology Guwahati (IITG))
533	p12 1203-1215	SENTINEL-1 BASED IMPROVED SNOW COVER MAPPING METHOD: STUDY ON HIMALAYAN TERRAIN	Sreelekshmi S (Indian Institute of Technology Bombay)*; Sushil Kumar Singh (SAC, ISRO); Gulab Singh (IIT Bombay)
79	p13 1215-1227	MAPPING THE BATHYMETRY OF GLACIER LAKES USING REMOTE SENSING DATA	Vaibhav Garg (Indian Institute of Remote Sensing, Indian Space Research Organisation)*; Ardra Santhosh (Indian Institute of Remote Sensing, Indian Space Research Organisation); Praveen K Thakur (IIRS-ISRO); Pankaj Dhote (Indian Institute of Remote Sensing, Indian Space Research Organisation)
478	p14 1227-1239	Detecting on-set of snow melt and elevation based distribution of wet snow using EOS-04 SAR data in Bhaga sub-basin	Satyeshkumar Ghetiya Girdharbhai (Space Applications Centre)*; Aman Punia (Space Applications Centre); Naveen Tripathi (Space Applications Centre); Tarang Patadiya (Indian Institute of Technology, Roorkee); Sushil Kumar Singh (Space Applications Centre); Praveen K. Gupta (Space Applications Centre)

TS-5A: 3 Dec 2024: 1400-1530

GT 5: Land Applications: Land Use (Session Chairs: Prof. C. Jeganathan (BIT Mesra)) and Prof. Shyam Lal (NIT Suratkal))

Lead Talk 1400-1420		Enhanced Urban Mapping: Leveraging Dilated Res-UNet for Accurate Building Feature Extraction in Medium-Resolution Satellite Imagery	Dr. Kuldeep Charasia
259	p1 1420-1432	Analysis of Object Detection Based Approaches for Synthetic Aperture Radar Images	Gaurav Kumar Dashondhi (Bennett University)*; Shakti Sharma (Bennett University); Girjesh Dasaundhi (Indian Institute of Technology Bombay); Tapas Badal (Bennett University)
23	p2 1432-1444	Monitoring of Vacant lands in Metropolitan Cities using VHRS data and DL Model - A Case Study for Delhi	Nagajothi K (ISRO)*; Vidya A (ISRO); Vinod P V (ISRO); Chandrasekaran B (ISRO); Vinod Sharma (ISRO); Akash Goyal (ISRO); Sunil Kulkarni (ISRO); Bharath B D (ISRO); Hebbar R (ISRO); Srivastav S K (ISRO)
46	p3 1444-1456	GEOSPATIAL ANALYSIS OF LAND USE LAND COVER DYNAMICS: A STUDY OF JHARGRAM DISTRICT, INDIA FROM 1993 TO 2023	Sabyasachi Pandit* (Motilal Nehru National Institute of Technology Allahabad)*; Sonam Agrawal (MNNIT Allahabad); Rajan Dev Gupta (Motilal Nehru National Institute of Technology Allahabad)
117	p4 1456-1508	Land Use and Land Cover Changes Over Three Decades (1990-2020) in the Western Himalaya: A Case Study of the Askot Landscape”	Anindita Debnath (Wildlife Institute of India)*
218	p5 1508-1520	Identifying Land Cover Change via MAD-Based Outlier Detection in NDVI Time Series	Soumili Dutta (Indian Institute of Technology, Bombay)*; Ashutosh Kumar Jha (IIRS)
554	p6 1508-1532	Critical Analysis of Co-Occurrence Measures for Landscape Characterization with High Resolution Satellite Data	Kavya bonyal* (IIT Roorkee)*; Dharmendra Singh (IIT Roorkee); PYARI MOHAN PRADHAN (IIT ROORKEE)

GT 5: Land Applications: Geospatial Knowledge (Chair: Prof. Surya Durbha, IIT Bombay)

Lead Talk 1545-1605		Geospatial Knowledge Representation	Prof. Surya Durbha
392	p7 1605-1617	Remote Sensing based Flood Susceptibility and Building-at-risk Estimation for Urban Kochi.	Arya R (Amrita Vishwa Vidyapeetham); Alka Singh (Center for Wireless Networks & Applications (WNA) Amrita Vishwa Vidyapeetham Amritapuri)*; Sreevisal G (Amrita Vishwa Vidyapeetham); Shebin S M (Center for Wireless Networks & Applications (WNA) Amrita Vishwa Vidyapeetham Amritapuri, India)
61	p8 1617-1629	Identifying and Mapping Human-Elephant Conflict Hotspots in Goalpara, Assam, Northeast India, using Geospatial Approaches	Rachan Daimary (Faculty of Arts , Manipal University Jaipur, Rajasthan 303007, India); Ajay Kumar (Dept. of CSE, Manipal University Jaipur, Rajasthan 303007, India)*
353	p9 1629-1641	The Spatial-Temporal Insights Into The Water Surface Temperature of The Kannauj-Patna Stretch of The River Ganga: A Remote Sensing Perspective	Janardan Kachari (IIT (BHU) VARANASI)*; Rajarshi Bhattacharjee (Indian Institute of Technology (BHU)); Herve Piegay (University of Lyon); Shishir Gaur (Indian Institute of Technology (BHU) Varanasi); Anurag Ohri (Indian Institute of Technology (BHU) Varanasi); Ranveer Kumar (Indian Institute of Technology (BHU) Varanasi)
111	p10 1641-1653	DEVELOPMENT OF A WEB MAP QUALITY EVALUATION FRAMEWORK	Sreehari Sajikumar (Indian Institute of Remote Sensing)*; Ashutosh Kumar Jha (IIRS)
310	p11 1653-1705	ONTOLOGY-DRIVEN INTEGRATION AND VISUAL ANALYTICS FOR GEOSPATIAL DATA	Shilpali P Bansu* (Ramrao Adik Institute of Technology)*; Sangita Chaudhari (Ramrao Adik Institute of Technology)

GT 5: Land Applications: Soil & Agriculture (Chair: Prof. J. Adinarayana)

420	P12 0930-0950	Satellite-Based Evapotranspiration Analysis for Agricultural Drought Assessment in Dharwad, Karnataka	Vinayaka Shankar Gargi (Vellore Institute Of Technology); Surendar Manickam (Vellore Institute of Technology)*
341	P13 0950-1002	SOIL ORGANIC CARBON MAPPING USING SENTINEL-1 AND ALOS-2 SAR DATA	Pavan Kumar Bellam (International crops research institute of semi-arid tropics)*; Murali Krishna Gumma (International crops research institute of semi-arid tropics); Narayanarao Bhogapurapu (Indian Institute of Technology Bombay); Venkata Reddy Keesara (NIT Warangal)
348	P14 1002-1014	Soil order classification using deep learning architecture and multimodal covariate integration	NIVAS RAJ M* (Tamil Nadu Agricultural University, Coimbatore, India)*; Kumaraperumal Ramalingam (Tamil Nadu Agricultural University, Coimbatore, India); Muthumanickam Dhanaraju (Tamil Nadu Agricultural University, Coimbatore, India); Jagadeeswaran Ramasamy (Tamil Nadu Agricultural University, Coimbatore, India); Prajesh PJ (Tamil Nadu Agricultural University, Coimbatore, India); Kamalesh Kanna S (Tamil Nadu Agricultural University, Coimbatore, India)
267	P15 1014-1026	Soil Moisture Prediction using Multi-source Datasets and Graph Neural Network	Sudhakara B. (NITK Surathkal)*; Shrutilipi Bhattacharjee (NIT Karnataka, Surathkal, India)
411	p16 1026-1038	IMPACT OF CYCLONE JAWAD ON POTATO CROPS IN PURBA BARDHAMAN: INSIGHTS FOR CROP INSURANCE USING OPTICAL AND MICROWAVE REMOTE SENSING	Debolina Mondal (IIT Bombay)*; Debolina Sarkar (Bidhan Chandra Krishi Viswavidyalaya); Momsona Mondal (Bidhan Chandra Krishi Viswavidyalaya); Manoj Kumar Nanda (Bidhan Chandra Krishi Viswavidyalaya)
349	p17 1038-1050	ASSESSMENT OF AGRICULTURAL DROUGHT SEVERITY IN THE SOUTHERN AGROCLIMATIC REGION OF TAMIL NADU USING REMOTE SENSING-BASED COMBINED DROUGHT INDEX	Suresh Mondal (Central University of Tamil Nadu)*; Arun Prasad K (Central University of Tamil Nadu); K Balasubramani (Central University of Tamil Nadu); S Kaliraj (National Centre for Earth Science Studies)

TS-6A: 4 Dec 2024 : 1400-1530

GT 6: Geological Applications -1 (Dr. Praveen Kumar, IIT Patna and Ms. Rashmi Malik, IIT Kanpur)

Lead Talk 1400-1530		Spatial-Temporal subsurface deformation mapping and monitoring using Passive Seismology: A Novel Approach to Mitigating Natural Risk in near-real time	Prof. Satish Maurya
43	p18 1430-1450	MULTI-TEMPORAL INSAR-BASED CRUSTAL DEFORMATION ANALYSIS IN A FEW TECTONICALLY ACTIVE REGIONS OF NORTH EAST INDIA	Gopal Sharma (NESAC)*; Pritom Pran Dutta (2Manipal Academy of Higher Education (MAHE), Manipal - 576104, Karnataka); M Somorjit Singh (NORTH EASTERN SPACE APPLICATIONS CENTRE); K K Sarma (NORTH EASTERN SPACE APPLICATIONS CENTRE); S P Aggarwal (NORTH EASTERN SPACE APPLICATIONS CENTRE)
185	p19 1450-1502	Slope Stability Evaluation of Open-Pit Mines using Multi-Temporal InSAR A Case Study of Gevra Coal Mine, Chhattisgarh, India	shubham chate (IIT BOMBAY)*; Ajay Kumar (Indian Institute of Technology Bombay); Gulab Singh (IIT Bombay); Priyanka* . (Sai Nath University)
47	p20 1502-1514	Tectonic Plate Interactions and Seismic Hazard Prediction: A Detailed Study Using GPS Stress Vectors and Geophysical Data	Manoj Kumar (IIT Kanpur); Anuradha Sharma (IIT Kanpur); SOMALIN NATH (IIT KANPUR)*; Sushant Shekhar (Indian Institute of Technology, Kanpur)
295	p21 1514-1526	Geospatial Appraisal of Surface and Subsurface Processes in Mapping of Hazard Risk Assessment in the GW Head Level Dropped Area of Western Odisha, India	Madhusmita Ojha* (MSCBD University)*; Pramod Chandra Sahu (MSCBD University); Shreerup Goswami (Utkal University); Dr. Chandrakanta Ojha (IISER Mohali)
370	p22 1526-1538	Numerical Simulation and Predictive Modeling of Debris Flow Events in parts of Wayanad District, Kerala, India: An Earth Observation Perspective	Lisa Das (Suresh Gyan Vihar University); SRUTHI S BABU* (Indian Institute of Remote Sensing)*; Shovan L.Chattoraj (Indian Institute of Remote Sensing); Gautam Dubey (Indian Institute of Remote Sensing); Suraj Singh (Suresh Gyan Vihar University)

TS-6B: 4 Dec 2024 : 1545-1730**GT 6: Geological Applications-2 Prof. S.S. Gedam and Prof. Satish Maurya, IIT Bombay)**

58	p23 1545-1557	Synergistic Use of Multi-Temporal InSAR and Machine Learning for Dynamic Landslide Susceptibility Mapping	Divya Sekhar Vaka (GEOFEM)*; Vishnuvardhan Reddy Yaragunda (GEOFEM); Skevi Perdikou (GEOFEM)
221	p24 1557-1609	KINEMATICS OF ROTATIONAL FAILURE OF RAMBAN LANDSLIDE (25 APRIL 2024) IN JAMMU AND KASHMIR AND REGIONAL VERTICAL DISPLACEMENT ANALYSIS USING SBAS-InSAR	Punit R Jalan (National Remote Sensing Centre)*
394	p25 1609-1621	Spaceborne reconstruction of Groundwater Level using Deep Learning in NW India	Abhilash Sreekumar (Amrita Viswa Vidyapeetham); Alka Singh (Center for Wireless Networks & Applications (WNA) Amrita Vishwa Vidyapeetham Amritapuri)*; Nagesh K Subbanna (Amrita Vishwa Vidyapeetham)
481	p26 1621-1633	INSAR-BASED MONITORING OF ONGOING LAND SUBSIDENCE IN AHMEDABAD, INDIA'S FIRST HERITAGE CITY	Hrishikesh Kumar (Indian Space Research Organization)*; Tajdarul Hassan Syed (IIT Kanpur); Falk Amelung (University of Miami); Jayaprasad P. (Space Applications Centre)
510	p27 1633-1645	MULTI-CRITERIA DECISION-MAKING, BIVARIATE STATISTICS AND MACHINE LEARNING BASED GROUNDWATER POTENTIAL MAPPING IN UPPER SUBARNAREKHA RIVER BASIN, INDIA	Farhin Tabassum (Birla Institute of Technology, Mesra)*; AKHOURI PRAMOD KRISHNA (BIT Mesra)

TS-7A: 3 Dec 2024 : 1400-1530

GT 7: Forest Dynamics: Degradation and Biomass (Prof. Sivakumar, SRM Chennai and Dr. Suraj Reddy NRSC)

92	p28 1400-1412	INTEGRATED ASSESSMENT OF FOREST DEGRADATION USING STATISTICAL AND MACHINE LEARNING APPROACHES	Subha Narayan (Amrita College)*; Rama Rao Nidamanuri (Indian Institute of Space Science and Technology)
86	p29 1412-1424	Assessing Forest Degradation in Nainital Region using SAR Imagery	Komal Rai (IIT Bombay)*; Gulab Singh (IIT Bombay)
87	p30 1424-1436	Monitoring Canopy Water Content in the Indian Himalayan Forests Using Sentinel-1 Derived Vegetation Optical Depth	Konica Bhandari (Indian Institute of Technology Bombay)*
100	p31 1436-1448	Changing Carbon-Water cycle coupling in India during recent decades reveals Remote Sensing Big Data and Machine Learning	Rahul Kashyap* (IIT Kharagpur)*; Jayanarayanan Kuttippurath (IIT Kharagpur)
133	p32 1448-1500	Monitoring Forest Loss with EOS-04 dual-pol SAR data in India	Anam Sabir (Indian Institute of Technology Indore)*; Unmesh Khati (IIT Indore)
345	p33 1500-1512	LINKING PHENOCAM DERIVED PHENOLOGY WITH SATELLITE AND FIELD OBSERVATIONS IN THE EVERGREEN FOREST	Akash Kumar* (IIT Roorkee); Ganesh Sai Sivani Noolu (IIT Roorkee); SIDDHARTHA KHARE (IIT Roorkee)*; Sergio Rossi (Université du Québec à Chicoutimi)

TS-7B: 3 Dec 2024 : 1545-1730

GT 7: Forest Dynamics and Biomass (Dr. Suraj Reddy NRSC and Dr. Praveen Kumar IIT Patna)

Lead Talk 1545-1605		Deep Learning	Prof. Biplab Banerjee
365	p34 1605-1617	FOREST FIRE BURNT AREA MAPPING USING REMOTE SENSING AND GIS IN PAURI GARHWAL, UTTARAKHAND, INDIA	Charu Saini* (Amity University, Noida, Uttar Pradesh,201313)*; Ravi Verma (Indian Institute of Technology Roorkee, Uttarakhand, India); Garg P. K. (Department of Civil (Geomatic) Engineering, Indian Institute of Technology, Roorkee , India); Varun Narayan Mishra (Amity university, Noida,Uttar Pradesh); Rohit Sharma (Indian Institute of Technology Roorkee)
419	p35 1617-1629	ENHANCED RETRIEVAL OF FOREST BIOMASS USING L-BAND SAR AND SPACEBORNE LIDAR DATA	Rajat* . (Hokkaido University)*; Mohamed Musthafa (CSRE, IIT Bombay); Ram Avtar (Hokkaido University)
451	p36 1629-1641	LOW ABOVEGROUND BIOMASS ESTIMATION USING GLOBAL SENTINEL-1 BACKSCATTER DATASET OVER A SUB-TROPICAL INDIAN FOREST	Chumbitha Nalla* Leena (Indian Institute of Technology Indore)*; Unmesh Khati (IIT Indore); Shashi Kumar (Indian Institute of Remote Sensing, ISRO)
525	p37 1641-1653	Working with Geospatial features, Sentinel-2 MSI and Machine Learning for predicting tree canopy level Landsat-8 derived LST at 30m	HARSH SRIVASTAVA (IIIT Allahabad)*; Triloki Pant (IIIT Allahabad, Prayagraj)
413	p38 1653-1705	Impact of Forest Dynamics on Slope, Chlorophyll Indices, and Other Biophysical Parameters over Lower Ganga Plain	AKASH ROY (BIT MESRA, Ranchi)*; Kirti Avishek (Birla institute of technology)

TS-8: 4 Dec 2024 : 1115-1300

GT 8: Remote Sensing of Crop monitoring (Prof. Tirloki Pant, IIIT Prayagraj and Dr. Alka Singh, Amrita Univ.)

	Lead Talk 1115-1135	Machine and Deep Learning for Crop Monitoring in India's Varied Agro-Climatic Landscapes	Dr Ujjal Kr Dutta, Satsure
154	p40 1135-1147	DUAL POLARIMETRIC INFORMATION FOR PHENOLOGICAL MONITORING OF WINTER WHEAT	Sakshi Jain (Indian Institute of Technology IndoreIndore)*
248	p41 1147-1211	DUAL POLARIMETRIC INFORMATION FOR BIOMASS ESTIMATION OF CROP	Sakshi Jain (Indian Institute of Technology IndoreIndore)*
311	p42 1211-1223	Tillage Monitoring: Determining the Optimal Number of Features in Multi-spectral Images: A Case Study in the Indo-Gangetic Plains	Sara Rajabzadeh (University of Pavia); Jit Mukherjee (University of Pavia)*; Fabio Dell'Acqua (University of Pavia)
491	p43 1223-1235	Detection and Analysis of Crop Stresses in Precision Agriculture Using Sentinel-2 Images	Tasneem Ahmed (Integral University Lucknow)*; gausiya yasmeeen (Integral University); Ajay Kumar Maurya (National Institute of Technology Patna)
344	p44 1235-1247	EXPLORING CROP GROWTH DYNAMICS: DUAL-POLARIMETRIC SAR FOR BIOPHYSICAL PARAMETER ASSESSMENT IN GREEN GRAM	Sourabh Jain* (Indian Institute of Information Technology Allahabad, Prayagraj (IIITA))*; Himanshu Maurya (IIIT Allahabad); Pooja Mishra (Pooja Mishra, Assistant Professor, Indian Institute of Information Technology Allahabad)

TS-9A: 4 Dec 2024 : 0930-1102

GT 9: Atmosphere (Session Chairs: Prof. K.P. Singh, IIT-BHU) and Dr. Atul Varma, SAC/ISRO)

Paper ID		Paper Title	Authors
Lead Talk 0930-0950		An insight into passive microwave measurement of rainfall - problems and their mitigation	Dr. Atul Varma, SAC,ISRO
327	p1 0950-1002	Atmospheric Rivers and Cloudburst Events over North-West Himalaya: A Case Study	SOUMYADEEP ROY (Climate Studies, Indian Institute of Technology, Bombay)*; Charu Singh (Atmospheric Science Department, Marine and Atmospheric Science Group, Indian Institute of Remote Sensing, ISRO, Dehradun)
333	p2 1002-1014	CHARACTERISTICS OF 2021 CLOUDBURST EVENTS BASED ON INSAT DATA	Manali Saha (IIT Bombay)*; Charu Singh (Atmospheric Science Department, Marine and Atmospheric Science Group, Indian Institute of Remote Sensing, ISRO, Dehradun)
334	p3 1014-1026	ASSESSMENT OF SATELLITE-DERIVED INDICATORS OF EXTREME RAINFALL	Mala Sinha (Birla Institute of Technology, Mesra)*; Mili Lala (Birla Institute of Technology, Mesra); Swagata Payra (Birla Institute of Technology Mesra)
354	p4 1026-1038	TROPOSPHERIC OZONE ESTIMATION USING MACHINE LEARNING OF REMOTE SENSING DATA: A CASE STUDY OF DELHI NCR	Pallavi Chaurasia* (Indian Institute of Tecnology Roorkee)*; Prakhar Misra (IIT Roorkee)
366	p5 1038-1050	WRF-Based Sensitivity Analysis of Microphysics Schemes: Case study of Cyclone Gulab	AJAY SHARMA (Indian Institute of Technology Bombay)*; Indu J (IIT Bombay)
422	p6 1050-1102	Investigating the role of ZTD and cloud top properties for rainfall detection	ABHISHEK KUMAR YADAV* (Indian Institute of Technology, Kharagpur)*; Ashvini Kumar (Indian Institute of Technology, Kharagpur); Debjyoti Ghosh (Indian Institute of Technology, Kharagpur); Suresh Kannaujiya (Indian Institute of Remote Sensing, ISRO); Paresh Nath Singha Roy (Indian Institute of Technology, Kharagpur)

TS -9B :4 Dec. 2024 : 1115 - 1300			
GT 9: Atmosphere (Session Chairs: Dr. Atul Varma, SAC/ISRO and Prof. K.P. Singh, IIT-BHU)			
543	P9 1115-1127	SIMULATION STUDY OF WIND FIELD RETRIEVAL FROM DOPPLER WEATHER RADAR BASED ON LINEAR SVR MODEL	Satish Nande (Independent Data Scientist); Vaibhav Tyagi (Indian Institute of Technology Indore (IITI)); Saurabh Das (Indian Institute of Technology Indore)*
16	P10 1127-1139	Enhancing Spatial Resolution of GPM Rainfall Data in Upper Cauvery Basin, India: A Machine Learning Approach	Pradeep Kumar G (National Institute of Technology, Karnataka); Saicharan Vasala (National Institute of Technology, Karnataka)*; Shwetha H R (National Institute of Technology, Karnataka)
49	p11 1139-1151	A Deep-learning pipeline to estimate instantaneous rain rates from INSAT-3D Outgoing Longwave Radiation data	Atharva Deshpande (IIT-M)*; Kaushik Gopalan (FLAME University)
89	p12 1151-1203	A STEP TOWARDS BUILDING MEDIUM-RANGE DATA-DRIVEN WEATHER FORECASTING SYSTEM OVER INDIA	Animesh Choudhury (National Institute of Technology, Rourkela)*
34	p13 1203-1215	MAE-CG: A Multi-Attention Enhanced Thin Cloud-Removal Generative Adversarial Network for Airborne Imagery	Jayakrishnan Anandakrishnan (NIT Puducherry)*
252	p14 1215-1227	Global Impact of Covid-19 on surface albedo and snow/ice content using the MODIS data	Deepak Singh (IIT Bombay)
540	p16 1227-1239	An Internet of Things Enabled Machine Learning Based Drone Mounted Weather Prediction System	Devendra Parihar (Helios Solutions); Ajay Chaudhary* (Engineering College Bikaner)*; Shreehitha Peddoju (National Institute of Technology Rourkela); Kavitha Kadarla (COER University, Roorkee)
461	P17 1239-1251	DEEP LEARNING ENABLED MULTI-STEP NOWCASTING RAINFALL USING GEODETIC AND METEOROLOGICAL OBSERVATIONS FOR INDIAN COASTAL CITY	Sumit Pandey* (Motilal Nehru Institute of Technology Allahabad); Ramji Dwivedi (MNNIT Allahabad)*; Devara Meghanad (Mobis Technical Center of India (Hyundai Mobis R&D))

GT 10: Oceans (Session Chairs: Rajesh S (National Remote Sensing Centre) and Ashwin Gujrati, SAC/ISRO)

Paper ID		Paper Title	Authors
	Lead Talk 15:45 - 16:05	Variability of Satellite derived ocean currents in the Indian Ocean	Rajesh S. , NRSC ISRO
15	p1 16:05 - 1617	Towards operational retrieval of chlorophyll-a in inland waters using optical water types	Ashwin Gujrati (ISRO)*; Sarad Chander (ISRO); Rama Rao Nidamanuri (Indian Institute of Space Science and Technology); Raghavendra P Singh (ISRO); Praveen Gupta (ISRO)
28	p2 1617 - 1629	Satellite Monitoring of Surface Phytoplankton Functional Types in the Northern Indian Ocean over a Decade (2014-23)	Aswathy Vijaya Krishna (Space Applications Centre, ISRO)*; Josmy P T (CUSAT); Layana Theresa (CUSAT); Anima Tirkey (Gujarat University, Ahmedabad); Babu KN (Indian space Research Organization); Sanjib Deb (Space Applications Centre, ISRO)
40	p3 1629 - 1641	Exploring SST and Chlorophyll-a Anomalies in the Arabian Gulf: A Google Earth Engine Analysis	Dr. Fayma Mushtaq (King Fahd University of Petroleum and Minerals Saudi Arabia)*; Adyan Ul Haq (Central University of Punjab); Simran Bharti (Central University of Punjab); Dr. Majid Farooq (Department of Ecology Environment and Remote Sensing Govt of J&K); Manikandan Karuppasamy Ponnambalam (King Fahd University of Petroleum and Minerals); Luai Muhammad Alhems (King Fahd University of Petroleum and Minerals)
246	p4 1641 - 1653	ANALYZING THE SPATIO-TEMPORAL DYNAMICS AND MICRO-LEVEL SPATIAL METRICS OF COASTAL AQUACULTURE IN THE CAUVERY DELTA USING SENTINEL-1 TIME SERIES DATA	Ravi Prasanth (Central University of Tamil Nadu)*; ArunPrasad K (Central University of Tamil Nadu); Senthamizh T K (Central University of Tamil Nadu); Sulochana Shekhar (Central University of Tamil Nadu)
73	p5 1653 - 1705	MACHINE LEARNING BASED SPACE-TIME SENSITIVE PREDICTION OF OCEAN COLOUR USING SATELLITE REMOTE SENSING	Apurva Narayan (SSN College of Engineering)*; Punya Ravichandran (Indian Institute of Space Science and Technology); Rama Rao Nidamanuri (Indian Institute of Space Science and Technology)

GT 10: Oceans (Session Chairs: Ashwin Gujrati, SAC/ISRO and Rajesh S (National Remote Sensing Centre))

Paper ID		Paper Title	Authors
369	P6 0930-0942	Oil- Slick Analysis With Polarimetric C-Band Sar Data: Some Aspects And Insights Over Coasts Of Indian Ocean Region	Sujata Ghosh (ADRIN, ISRO, DOS)*
196	P7 0942-0954	Efficient Mapping of Intertidal Zone Topography of Gujarat Coast using Landsat time-series data	Abhijit M Pillai (National Remote Sensing Centre)*; Nalini J (National Remote Sensing Centre); Narender Bommineni (National Remote Sensing Centre)
168	P8 0954-1006	A NOVEL APPROACH TO ISOLATE DETRITUS ABSORPTION AND COLOURED DISSOLVED ORGANIC MATTER FOR GLOBAL WATERS	Anurag Gupta (Space Applications Centre, Ahmedabad)*; Mini Raman (Space Applications Centre, Ahmedabad); Syed Moosa Ali (Space Applications Centre (ISRO))
273	P9 1006-1018	Detection of Phytoplankton Size Structure in the Northern Indian Ocean using Hyperspectral Data	Syed Moosa Ali (Space Applications Centre (ISRO))*; Jayanarayanan Kuttippurath (IIT Kharagpur); Aswathy Vijaya Krishna (Space Applications Centre, ISRO); Anima Tirkey (Gujarat University, Ahmedabad); Babu KN (Indian space Research Organization)
301	P10 1018-1030	Parameterizations of the ocean skin effect of INSAT-3D/3DR SST using in-situ SST observations	Swapna Mulukutla (National Remote Sensing Centre)*; Rajesh S (National Remote Sensing Centre); Nagendra Babu TV (Jawaharlal Nehru Technological University Kakinada, Kakinada); Santhoshi T (National Remote Sensing Centre); Nagamani P.V (National Remote Sensing Centre); Rabindra K N (National Remote Sensing Centre); Srinivasa Rao G (National Remote Sensing Centre)
393	P11 1030-1042	INVESTIGATING THE ROLE OF DOMINANT DRIVERS IN LIMITING THE OCEAN PRIMARY PRODUCTIVITY IN SWEDISH LARGE LAKES VÄTTERN AND VÄNERN USING REMOTELY SENSED OBSERVATIONS	Sachin Budakoti (Lund University); Praveen Kumar (IIT Patna); Mahendra Pal (Lund University); Mahendra K. Pal (Lund University)*

Paper ID		Paper Title	Authors
309	Lead Talk 0930-0950	Impact of Volatile Ices in Martian Climate and Shaping the Spider Landforms on Mars	Sehajpal Singh (IIT Bombay); Deepak Singh (CSRE, IIT Bombay)*
84	P2 0950-1002	Lunar Terrain Mapping with GAN-VAE Hybrid Models	Pardhu Thottempudi (BVRIT HYDERABAD College of Engineering For Women)*; venkatesh naramula yadav (S R University)
110	P3 1002-1014	MARE VAPORUM FERROUS OXIDE MAPPING USING CHANDRAYAAN-1 M3 DATASETS	Poorva Singh (Indian Institute of Remote Sensing (IIRS))*; Vinay Kumar (IIRS); Shashi Kumar (Indian Institute of Remote Sensing)
203	P4 1014-1026	WATER ICE DETECTION IN ERLANGER CRATER: A PERMANENTATLY SHADOWED REGION OF LUNAR NORTH POLE	Chandani Sahu (National Institute of Technology, Raipur)*; HIMANSHU GOVIL (NIT Raipur)
211	P5 1026-1038	MINERAL CHARACTERIZATION OF CRATER PITATUS – FLOOR FRACTURED NECTARIAN AGED CRATER.	SAKTHI SARAVANAN.S (National Institute of Technology Raipur)*; HIMANSHU GOVIL (NIT Raipur); Chandani Sahu (National Institute of Technology Raipur)
282	P6 1038-1050	Backscatter Coefficients and Circular Polarization Ratio based Study of Impact Craters in the Permanently Shadowed Region of the Lunar South Pole using Chandrayaan-2 DFSAR data	Nitish Kumar (Birla Institute of Technology, Mesra)*; Virendra S Rathore (Birla Institute of Technology, Mesra, Ranchi); AKHOURI PRAMOD KRISHNA (BIT Mesra); Dr Ajeet Kumar (Indian Institute of Technology Rookree); Raja Biswas (Birla Institute of Technology, Mesra); Anup Das (Space Application Center, Indian Space Research Organization, Ahmedabad, India)

GT 11: Planetary Science (Prof. Deepak Singh IIT Bombay)

448	P7 1115-1127	Mapping of pyroxene parameters of mare basalts in the southeast Oceanus Procellarum from Moon Mineralogical Mapper (M3) instrument on board Chandrayaan-1	Debosmita Paul (Indian Institute of Technology Bombay)*
283	P8 1127-1139	High - Precision Lunar Mapping in Complex Terrain using CNN and Multi-Source DEM's	Mimansa Sinha (Birla Institute of Technology, Mesra, Ranchi)*; Sanchita Paul (BIT Mesra, Ranchi); Mili Lala (Birla Institute of Technology, Mesra, Ranchi, India)
106	P9 1139-1151	CONSTRAINING THE CHARACTERISTICS OF SURFACE CO2 SNOW AND GLACIER ICE ON MARS FROM SPECTRAL SIGNATURES USING MODELING AND REMOTE SENSING DATA	Sehajpal Singh (IIT Bombay)*; Deepak Singh (IIT Bombay)
340	P10 1151-1203	DFSAR DATA-BASED INTEGRAL EQUATION MODELING FOR DIELECTRIC CHARACTERIZATION OF LUNAR TAURUS-LITTROW VALLEY	Shashi Kumar (Indian Institute of Remote Sensing (IIRS), ISRO, Dehradun)*; Shaifali Garg (IIT Roorkee); Aanchal Sharma (University of Trento, Italy)
342	p11 1203-1215	Chandrayaan-2 Dual Frequency SAR Data PreProcessing and Analysis For Lunar Crater Detection	Aditya Kumar Verma (National Institute of Technology Hamirpur)*; G Devendhar (National Institute of Technology Hamirpur); Dr. Ashok kumar (NIT-Hamirpur); Rakesh Sharma (National Institute of Technology Hamirpur)
347	p12 1215-1227	INVESTIGATING AEOLIAN FEATURES AT GALE CRATER, MARS USING GEOSPATIAL APPROACH	Sibalika Kundu (Birla Institute of Technology Mesra Ranchi)*; Swagata Payra (Birla Institute of Technology Mesra); Mili Ghosh Nee Lala (Birla Institute of Technology Mesra Ranchi)
418	p13 1227-1239	COMPARISON OF DEEP LEARNING MODELS FOR CRATER DETECTION USING OHRC DATASET OF CHANDRAYAAN-2	Harshaditya Gaur (Indian Institute of Remote Sensing - ISRO)*; Shaifali Garg (IIT Roorkee); Vinay Kumar (Indian Institute of Remote Sensing - ISRO)
502	P14 1239-1251	A STUDY ON THE FORMATIONAL PROCESSES OF THE VALLEY NETWORKS PRESENT WITHIN A DEGRADED CRATER IN THE THAUMASIA HIGHLAND REGIONS, MARS	Dibyendu Ghosh (IIT BOMBAY)*

GT 12: Instrument Sensors and Calibrations (Mr. Ritesh Sharma and Mr. Krishna Murari, SAC/ISRO)

Paper ID		Paper Title	Authors
119	p1 1400-1412	Initial Operational Phase Radiometric Performance Verification of EOS-06 OCM-3 with Sentinel-3A/3B OLCI using Multipoint Targets	Sunita Arya (Space Applications Centre, ISRO, Ahmedabad)*; Ankur Garg (Indian Space Research Organisation); Babu KN (Indian space Research Organization); Meenakshi Sarkar (Space Applications Centre, ISRO, Ahmedabad); Manthira Moorthi S (ISRO); Debajyoti Dhar (ISRO)
125	p2 1412-1424	Advancing India's Geospatial Science: The Imperative for Satellite Laser Ranging (SLR) Infrastructure	Pramod B Gandugade (Indian Institute of Technology Kanpur); Sushant Shekhar (Indian Institute of Technology, Kanpur)*; Somalin Nath (National Centre for Geodesy, IIT Kanpur); B Nagarajan (IIT Kanpur); Onkar Dikshit (IIT Kanpur)
234	p3 1424-1436	Improved Compression of DMSAR data using LBG-Algorithm based Vector Quantizer	Ameya Anil Kesarkar (Space Application Centre (SAC), ISRO)*; Akshay P Vetel (Space Application Centre, ISRO); Amit Shukla (Space Application Centre (SAC), ISRO); Partha Nandy (Space Application Centre (SAC), ISRO); Prantik Chakraborty (Space Application Centre (SAC), ISRO); Jogeswara Rao (Space Application Centre (SAC), ISRO); Pankaj Nath (Space Application Centre (SAC), ISRO); Ch V N Rao (Space Application Centre (SAC), ISRO)

263	p4 1436-1448	CHARACTERIZATION OF SUNDARBAN MANGROVE FOREST FOR SYSTEMATIC ASSESSMENT OF RADIOMETRIC STABILITY IN ISRO'S EOS-04 SAR DATA	Niharika Karumuri (National Remote Sensing Centre, Indian Space Research Organization)*; AAKASHNEEL BASAK (NRSC, ISRO); P V Jayasri (ISRO); Ramu Yerukala (NRSC, ISRO); Surya kalyani Maddala (NRSC, ISRO); HSV Ushasundari Ryali (NRSC, ISRO)
268	p5 1448-1500	Joint Mode Testing and Characterization of NISAR S-SAR Instrument	Anish Kumar Mishra (Space Application Centre, ISRO Ahmedabad)*; Rakesh Kumar (Space Applications Centre, ISRO); Diksha Sharma (SAC); Suneela Mishra (SAC); Chetankumar Lad (SAC); Pankaj KANTI NATH (SAC); CH V N Rao (SAC)
274	p6 1500-1512	Micro Doppler Phenomena: Lab demonstration and Feature Extraction	Sunita Khokhar (Indian Space Research Organisation)*; Rutvi Shihora (Indian Space Research Organisation); BSVGR Jogeswara Rao (Indian Space Research Organisation); Prantik Chakraborty (Indian Space Research Organisation); Pankaj Kanti Nath (Indian Space Research Organisation); CH V Narasimha Rao (Indian Space Research Organisation)

GT 12: Instrument Sensors and Calibrations (Mr. Krishna Murari and Mr. Ritesh Sharma, SAC/ISRO)

279	p6 0930-0942	Full Bandwidth Calibration of RISAT-1B Active Array Antenna using Near Field Chirp Acquisitions	Yogendra Sahu (SAC, ISRO)*; Himanshu Sharma (SAC, ISRO); Ameya Anil Kesarkar (Space Application Centre (SAC), ISRO); Akshay P Vetel (Space Application Centre, ISRO); Ashok Rohada (SAC, ISRO); Alok Pal (SAC, ISRO); Partha Nandy (SAC, ISRO); Prantik Chakraborty (SAC, ISRO); Pankaj Nath (SAC, ISRO); Ch V N Rao (SAC, ISRO)
292	p7 0942-0954	DESIGN AND BENCHMARKING OF A HIGH THROUGHPUT RADAR ALTIMETER PROCESSOR	Ritesh Kumar Sharma (Indian Space Research Organisation)*; Dipanwita RoyChowdhury (IIT Kharagpur); Jolly Dhar (SAC, ISRO); Umang Bhatia (SAC, ISRO); Saravana Kumar (ISRO); Ch V N Rao (ISRO)
339	p8 0954-1006	Automated and Targetless Multi-LiDAR Calibration using RANSAC-ICP	SURBHI BARNWAL (IIT KANPUR)*; Salil Goel (IIT Kanpur)
378	p9 1006-1018	Characterization of NISAR S-SAR 1-D Feed Array Antenna : A Time Efficient Approach	Rakesh Kumar (Space Applications Centre , ISRO)*; Diksha Sharma (Space Applications Centre , ISRO); Anish Mishra (Space Applications Centre , ISRO); Suneela Mishra (Space Applications Centre , ISRO); Chetan Lad (Space Applications Centre , ISRO); Jogeswara Rao (Space Applications Centre , ISRO); Pankaj Kanti Nath (Space Applications Centre , ISRO); CH V Narasimha Rao (Space Applications Centre , ISRO)

399	p10 1018-1030	Triband Dual Polarization Ground based GNSS Reflectometry System	Ananya Ray (SAC)*; Diksha Gupta (SAC); Sunita Khokhar (SAC); Alok Pal (SAC); Ashok Rohada (SAC); Anish Mishra (SAC); Prantik Chakraborty (SAC); Akshay Pande (SAC); Renuka Tandan (SAC); Aayush Sohagoura (SAC); Devendra Sharma (SAC); KASHISH GROVER (SAC-ISRO); Saumi De (SAC); Saurabh Bhalla (SAC); Shivani Tyagi (SAC); Dharmendra Kumar Pandey (Indian Space Research Organization); Deepak Putrevu (Space Applications Centre, Indian Space Research Organization); Jogeswara Rao BSVGR (SAC); Pankaj Kanti Nath (SAC); Ch V N Rao (SAC)
440	p11 1030-1042	Automatic Gain and Offset Control Algorithm for Millimeter-wave Humidity Sounder Payload	Mahendra P. S. Bhadoria (Space Applications Centre, ISRO)*; Prantik Chakraborty (SAC ,ISRO); Ameya Anil Kesarkar (Space Application Centre (SAC), ISRO); Ch V Narasimha Rao (SAC, ISRO)

GT 13: Mission Sensors and Calibrations (Chairs: Shailendra Kumar Joshi and Yogendra Sahu , SAC ISRO)

Paper ID		Paper Title	Authors
138	P1 1115-1127	Automatic Geometric Quality Assessment Framework For Geo-Imaging Platform Data Products	Shailendra Kumar Joshi (SAC,ISRO)*; Shilpa Prakash (SaC); Nilima Rani Chaube (SAC,ISRO); Debajyoti Dhar (ISRO)
197	P2 1127-1139	EOS-08 GNSS-REFLECTOMETRY PAYLOAD LEVEL-1 DATA PRODUCT GENERATION	Puja kakkar (Space Applications Centre, Indian Space Research Organization); Parikshit Parasher (Space Applications Centre, Indian Space Research Organization); Dinesh Kumar Jain (Space Application Center, Indian Space Research Organisation (ISRO))*; Jigneshkumar R Kshatriya (Space Applications Centre, ISRO); Devang Mankad (Space Application Center, Indian Space Research Organisation (ISRO)); V Manavala Ramanujam (Space Applications Centre, Indian Space Research Organization)
232	P3 1139-1151	Lab Demonstration of Ground-Based SAR for Deformation Monitoring	Akshay P Vetal (Space Application Centre, ISRO)*; Yogendra Sahu (Space Application Centre (SAC), ISRO); Ameya Anil Kesarkar (Space Application Centre (SAC), ISRO); Ashok Rohada (Space Application Centre (SAC), ISRO); Partha Nandy (Space Application Centre (SAC), ISRO); Prantik Chakraborty (Space Application Centre (SAC), ISRO); Pankaj Nath (Space Application Centre (SAC), ISRO); Ch V N Rao (Space Application Centre (SAC), ISRO)

287	P4 1151-1203	Direct Georeferencing of CanSat Aerial Imagery: Insights from IN-SPACE CanSat India Launch	Somshuvra Basu* (Indian Institute of Technology Jodhpur)*; Radha Krishna Kavulru (Dhruva Space)
319	P5 1203-1215	EFFECTIVE SPATIAL RESOLUTION FROM AIRBORNE AND UAV SENSORS USING SIEMENS STAR	Nalini J (National Remote Sensing Centre)*; Runjhun Chandra (National Remote Sensing Centre); Saravanan Subbarayan (National Institute of Technology Tiruchirappalli); Narender B (National Remote Sensing Centre)
325	P6 1215-1227	Radar based Velocity meter digital hardware for Interplanetary landing mission	UMANG BHATIA (INDIAN SPACE RESEARCH ORGANISATION)*; SAMRAT SINHA (INDIAN SPACE RESEARCH ORGANISATION); SONALI JAIN (INDIAN SPACE RESEARCH ORGANISATION); AKSHAY KUMAR K (INDIAN SPACE RESEARCH ORGANISATION); RITESH KUMAR SHARMA (INDIAN SPACE RESEARCH ORGANISATION); B SARAVANA KUMAR (INDIAN SPACE RESEARCH ORGANISATION)
126	P7 1227-1239	DESIGN OF A SUBSURFACE RADAR SOUNDER FOR VENUS EXPLORATION	swati Shukla (space applications centre, ISRO)*; Dharmendra Kumar Pandey (Indian Space Research Organization); BSVGR Jogeswara Rao (Indian Space Research Organization); pankaj kanti nath (Indian Space Research Organization); Ch. V Narsimha Rao (Indian Space Research Organization); Deepak Ghodgaonkar (Dhirubhai Ambani Institute of Information and Communication Technology)

CCS 1: Early Results from NASA-ISRO Dual-frequency SAR (NISAR) Mission (Session Chairs: Dr. Anup Kumar Das (SAC ISRO) and Dr. Paul Rosen (JPL, NASA))

Paper ID		Paper Title	Authors
553	Lead Talk 1400-1420	NISAR Mission Overview and Updates	Paul A. Rosen (JPL, NASA) ; Rashmi Sharma (SAC, ISRO); Anup Kumar Das (SAC, ISRO)*
194	P2 1420-1432	NISAR SweepSAR Data Processing	Samneet Thakur (Space Applications Centre)*; Shubham Gupta (Space Applications Centre, ISRO); Pragya Arora (Space Applications Centre, ISRO); Parikshit Parasher (Space Applications Centre, ISRO); Raghav Mehra (Indian Space Research Organization); Krishna Murari Agrawal (Space Applications Centre, ISRO); Manavala Ramanujam Venugopalan (Space Applications Centre, ISRO)
220	P3 1432-1444	NISAR S-SAR Echo Data Simulation	Krishna Murari Agrawal (Space Applications Centre, ISRO)*; Samneet Thakur (Space Applications Centre); Shubham Gupta (Space Applications Centre, ISRO); Manavala Ramanujam Venugopalan (Space Applications Centre, Indian Space Research Organization)
224	P4 1444-1456	Pointing Error Calibration for NISAR S-SAR	Manavala Ramanujam Venugopalan (Space Applications Centre, ISRO); Krishna Murari Agrawal (Space Applications Centre, ISRO)*; Parikshit Parasher (Space Applications Centre); Samneet Thakur (Space Applications Centre); Shubham Gupta (Space Applications Centre, ISRO)
270	P5 1456-1508	NISAR DATA AND PRODUCT QUALITY ASSESSMENT PLAN FOR THE ORBITAL PHASE	Srisudha Seela (National Remote Sensing Centre); Maneesha Gupta (ISRO)*; Santhisree basavaraju (ISRO); Jayabharathi s (ISRO); P V Jayasri (ISRO); Niharika Karumuri (National Remote Sensing Centre, Indian Space Research Organization); Raghavender n (isro); ushasundari hsv (ISRO); kannabiran l (isro)

275	P6 1508-1520	UPDATES ON NISAR DATA PRODUCTS BY ISRO	Pragya Arora (Space Applications Centre,ISRO)*; Samneet Thakur (Space Applications Centre); Qamer Saquib (Space Applications Centre,ISRO); Vatsalya Gupta (Space Applications Centre, ISRO); Raghav Mehra (Indian Space Research Organization); Krishna Murari Agrawal (Space Applications Centre, ISRO); Jalpa Modi (Space Applications Centre (ISRO)); Manavala Ramanujam Venugopal (Space Applications Centre,ISRO); Usha Sundari Ryali (National Remote Sensing Centre, ISRO)
326	P7 1508-1532	ABOVEGROUND BIOMASS ESTIMATION USING NISAR SIMULATED ALOS-2 TIME SERIES DATA	Naveen Ramachandran (Jet Propulsion Lab)*; Sassan Saatchi (Jet Propulsion Lab); Alexandra Christensen (Jet Propulsion Lab); Cushman K.C. (Oak Ridge National Laboratory)

CCS 1: Early Results from NASA-ISRO Dual-frequency SAR (NISAR) Mission (Chairs: Dr. Paul Rosen (JPL, NASA) and Dr. Anup Kumar Das (SAC ISRO))

171	P8 1545-1557	ACTIVE-PASSIVE ALGORITHM FOR NISAR HIGH RESOLUTION SOIL MOISTURE PRODUCTS OVER INDIA	Dharmendra Kumar Pandey (Indian Space Research Organization)*; Prashant Srivastava (Institute of Environment and Sustainable Development, Banaras Hindu University, Varanasi); Manish Parmar (Space Applications Centre, ISRO, Ahmedabad); Praveen Kumar Gupta (Space Applications Centre, ISRO, Ahmedabad); Anup Das (Space Applications Centre, ISRO, Ahmedabad); Deepak Putrevu (Space Applications Centre, ISRO, Ahmedabad); Raj Setia (Punjab Remote Sensing Center, Ludhiana, Punjab)
395	P9 1557-1609	Radiometric and polarimetric calibration quality assessment of ISRO ASAR L- and S-band data: Pre-NISAR calibration activity	Shweta Sharma (Space Applications Centre ISRO)*; Santhisree B. (NRSC ISRO); P V Jayasri (ISRO); MANEESHA GUPTA (ISRO); Bruce Chapman (JPL NASA); Shashi Kumar (IIRS ISRO); Bhaskar Dubey (Space Applications Centre); Raghav Mehra (Indian Space Research Organization); Niharika Karumuri (National Remote Sensing Centre, Indian Space Research Organization); Supantha Sen (NRSC ISRO)
153	P10 1609-1621	Towards establishment of ground measurement sites network in India for validation of NISAR ecosystems science products	Anup Kumar Das (SAC, ISRO)*; C Patnaik (SAC); Dharmendra Kumar Pandey (Indian Space Research Organization); Deepak Putrevu (Space Applications Centre, Indian Space Research Organization); Anand S.S. (SAC, ISRO); Saroj Maity (SAC, ISRO); Hitendra Padalia (IIRS); Nikhil Lele (SAC, ISRO); Suraj Reddy Rodda (NRSC, ISRO); Mukesh Kumar (SAC, ISRO); Ayan Das (SAC, ISRO); Dipanwita Haldar (IIRS, ISRO); Girish Gopinath (Kerala University of Fisheries and Ocean Studies (KUFOS)); Surendran U, (Centre for Water Resources Development and Management); A.G. Koppad (University of Agricultural Sciences, Dharwad); G.D. Bairagi (M.P. Council of Science and Technology, Bhopal); P.L.N. Raju (Assam State Space Applications Centre, Guwahati); Prasanna Boruah (Assam State Space Applications Centre, Guwahati); Rajkumar Yadav (GEER Foundation, Gandhinagar); Meghal Shah (GEER Foundation, Gandhinagar); Sekhar Muddu (IISc); Prashant Srivastava (Banaras Hindu University, Varanasi); SREELASH K (NATIONAL CENTRE FOR EARTH SCIENCE STUDIES); Rajiv Sinha (IIT Kanpur)

404	P11 1621-1633	ANALYZING C- AND L-BAND RADAR BACKSCATTERS IN RESPONSE TO SNOW/ICE FACIES CHANGES OVER A DEBRIS-FREE HIMALAYAN GLACIER	Naveen Tripathi (Space Applications Centre, ISRO, Ahmedabad)*; Sushil Singh (Space Applications Centre, ISRO, Ahmedabad); Satyesh Ghetiya (Space Applications Centre, ISRO, Ahmedabad); Praveen Kumar Gupta (Space Applications Centre, ISRO, Ahmedabad)
449	P12 1633-1645	Multi-frequency SAR signature analysis of various glacier features in Alaskan region	Sushil Kumar Singh (Space Applications Centre, ISRO, Ahmedabad)*; Naveen Tripathi (Space Applications Centre, ISRO, Ahmedabad); Purvee Joshi (Space Applications Centre, ISRO, Ahmedabad); Satyesh Ghetiya (Space Applications Centre, ISRO, Ahmedabad); Jayaprasad P. (Space Applications Centre, ISRO, Ahmedabad); Praveen K Thakur (IIRS-ISRO); Sandip Oza (Space Applications Centre, ISRO, Ahmedabad)
519	P13 1645-1657	CAL/VAL OF NISAR BIOMASS PRODUCT WITH AIRBORNE-LIDAR DERIVED METRICS: AN ALTERNATIVE TO GROUND-BASED MEASUREMENTS	Anand S Sahadevan (Space Applications Centre, ISRO)*; Harish Kumar (DAIICT); Anup Das (Space Applications Centre, ISRO); C Patnaik (SAC)
380	P14 1657-1709	DEVELOPMENT OF AN ALGORITHM FOR THE RETREIVAL OF OCEAN SURFACE WIND FROM L-BAND SYNTHETIC APERTURE RADAR	Abhisek Chakraborty (Space Applications Centre, Indian Space Research Organisation)*; Neeraj Dr Agarwal (ISRO); Pradeep Kumar Thapliyal (Indian Space Research Organisation)
277	P15 1709-1721	DIAMOND ORBIT ACCURACY EVALUATION FOR NISAR	Bhaskar Dubey (Space Applications Centre)*; Anuja CP Sharma (Isro); Nilima Rani Chaube (SAC Ahmedabad)
546	P16 1721-1733	Assessment of simulated NISAR data from NASA AM/PM campaign for above-ground biomass retrieval	Unmesh Khati (IIT Indore)*

TS-15: 04 Dec. 2024: 1400 - 1530

CCS 7: AI & ML Applications in Natural Disaster Management (Session Chairs: Dr. Surajit Ghosh (International Water Management Institute) and Dr.Veena T., NIT Goa)

Paper ID		Paper Title	Authors
	Lead Talk 1400-1420	Remote Sensing of Natural Disaster	Prof. Sivakumar, SRM
177	P2 1420-1432	Predicting and Mapping Flood Susceptibility Leveraging Explainable AI and GIS Techniques	Abhigyan Chakraborty* (IIT Hyderabad)*; BARUN KUMAR (Indian Institute of Technology, Hyderabad); Shruti Upadhyaya (IIT Hyderabad)
317	P3 1432-1444	A NOVEL FEATURE SELECTION METHOD FOR REGRESSION AND ITS APPLICATION FOR PREDICTION OF FOREST FIRES	Namita Jain (Jadavpur university); Susmita Ghosh (Jadavpur University)*; Ashish Ghosh (International Institute of Information Technology, Bhubaneswar)
332	P4 1444-1456	Building Damage Assessment across Earthquake Regions: A Comparative Study of Neural Network Architectures and the Need for Domain Adaptation	Pratyush V Talreja (IIT Bombay)*; Surya Durbha (Indian Institute of Technology Bombay); Gaganpreet Singh (Indian Institute of technology bombay); Shreelakshmi C R (Indian Institute of Technology Bombay); Chetan Mahajan (Indian Institute of Technology Bombay)
356	P5 1456-1508	Earth Observation-based drought assessment of Odisha, India, using Google Earth Engine	Anuva Chowdhury* (Birla Institute of Technology Mesra)*; Surajit Ghosh (IWMI); Richa Sharma (Birla Institute of Technology Mesra)
416	P6 1508-1520	SYNERGETIC USE OF RANDOM FOREST AND H3 GRID CELL FOR THE FLOOD MONITORING USING SENTINEL-1 DATA	Ajay Kumar Maurya (National Institute of Technology Patna)*; Shaifali Garg (IIT Roorkee); Aditya Singh (IIT Roorkee); Ayush Patidar (IIT Roorke); Manjeet Kumar Sahu (IIT Roorkee); Dharmendra Singh (IIT ROORKEE)

TS-16: 03 Dec. 2024 : 1400 - 1530

CCS 9: Advanced General Purpose Approaches, and Algorithms for Remotely sensed Data Analysis (Session Chair: Dr.Veerakumar T.Dr. Kuldeep Chaurasia, Bennett University and Prof.)

Paper ID		Paper Title	Authors
	Lead Talk 1400-1420	Geointellegence for Defence Applications	Sahana System
74	P1 1420-1432	Dimensionality Independent Spectral Metric (DISM) for automatic recognition of information classes in high-resolution spectral imagery	Harsha Chandra* (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala)*; Manoj Kaushik (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala); Anagha S Sarma (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala); Divya Sharma (SatSure Analytics India Pvt. Ltd., Bangalore); Priyamvada Nanjundiah (SatSure); Rama Rao Nidamanuri (Indian Institute of Space Science and Technology)
508	P2 1432-1444	Spectral Clustering in hyperspectral Images in Quantum Framework	Archana G Pai (IITB)*; Krishna Mohan Buddhiraju (IITB); Surya Durbha (IITB)
101	P3 1444-1456	Forward Spectral Mixture Modelling for Mineral Mapping Applications	GREESHMA K V (St Aloysius College, Mangalore)*; ANAGHA S SARMA (Indian Institute of Space Science and Technology, Thiruvananthapuram, India); Rama Rao Nidamanuri (Indian Institute of Space Science and Technology)
137	P4 1456-1508	Geopointing Error Analysis in Aerial Remote Sensing System	Sangeeta Ms Shrivastava (DRDO); Dilip Kumar Dalei (DRDO)*; Rajesh Kumar (DRDO); Narayan Panigrahi (DRDO)
219	P5 1508-1520	Sun-Induced Fluorescence: A Promising Remote Sensing Signal for Monitoring Peatland Vegetation	Anshu Rastogi (Poznan University of Life Sciences)*; Michal Antala (Poznan University of Life Sciences); Marcin Strozecki (Poznan University of Life Sciences); Radostaw Juszcak (Poznan University of Life Sciences)
256	P6 1520-1532	BhuPRAHARI: A tool leveraging Artificial Intelligence and Remote Sensing for Monitoring Small Inland Water Bodies	Deepak Meena (IIT Delhi); Ishita Ahmed (IIT Delhi); Prateek Sharma (IIT Delhi); Kshitij Verma (IIT Delhi); Manabendra Saharia (IIT Delhi)*

TS-17A: 05 Dec. 2024: 0930 - 1100

CCS10+CCS13: UAV/Drones and their Applications (Session Chairs: Mr. Y. Bharadwaj Vaimanika Aerospace and Laxman Singh, IIT Roorkee)

Paper ID		Paper Title	Authors
	Lead Talk 0930-0945	Drone Applications	Mr. Y. Bharadwaj , Vaimanika Aerospace A Unit of Ved Prabha Aerospace Private Ltd.
145	P2 0945-0957	PREDICTING SORGHUM LODGING WITH UAVS: A REGRESSION-BASED APPROACH	Pradeep Kumar Mishra (Corteva Agriscience)*; Chaitanyam Potnuru (Corteva Agriscience); Sara tiradotolosa (Corteva Agriscience); Emmanuel Adeyemo (Corteva Agriscience)
183	P3 0957-1009	EFFICIENT APPLICATION OF ADAPTIVE GAUSSIAN KERNEL FOR DENSITY MAP GENERATION WITH DRONE DATA	Laxman Singh Khangarot* (Indian Institute of Technology Roorkee)*; Vyomika Singh (Indian Institute of Technology Roorkee); Dharmendra Singh (Indian Institute of Technology Roorkee)
523	P4 1009-1021	Deep Learning based Surface Velocity Estimation in Contaminated Rivers: A Case Study of Varuna River	Devyan Mishra (IIT BHU)*; Mayank Bajpai (IIT BHU); Shishir Gaur (IIT BHU)
446	P5 1021-1033	Monitoring Infrastructural Changes in Challenging Terrains Using a Drone-Based 3D Point Cloud Approach for the North Eastern Region	Puyam S Singh (North Eastern Space Applications Centre)*; Dibyajyoti Ch (North Eastern Space Applications Centre); Victor Saikhom (North Eastern Space Applications Centre); Nilay Nishant (North Eastern Space Applications Centre); SP Aggarwal (North Eastern Space Applications Centre)
226	P6 1033-1045	OMPARATIVE ANALYSIS OF DEEP LEARNING MODELS FOR SEMANTIC SEGMENTATION OF UAV IMAGES	Preeti Smt. Rajput (RRSC-south)*, NAGASHREE MOHANKUMAR (RRSC-South), CHANDRASEKARAN B (RRSC-South), NAGAJOTHI K (RRSC-South), RAMACHANDRA HEBBAR (RRSC-South)
198	P6 1045-1057	Tree Crown Segmentation and Stock Volume Prediction Using Unoccupied Aerial Vehicle Imagery	Anurupa Goswami (Indian Institute of Technology)*

CCS10+CCS13: UAV Applications: Precision Agriculture (Session Chairs: Laxman Singh and Prof. Abhilash Chandel VT, USA)

Paper ID		Paper Title	Authors
	Lead Talk 1115-1135	Application of Remote sensing for Digital Agriculture	Prof. Abhilash Chandel, Precision Agriculture and Data Management, VT, USA
148	P7 1135-1147	Precision Phenotyping of Wheat Lodging Using UAVs	Mahesh Taparia (Corteva Agriscience)*; Chaitanyam Potnuru (Corteva Agriscience); Sara Tirado Tolosa (Corteva Agriscience); David Hessel (Corteva Agriscience); Cristiano Lemes (Corteva Agriscience); Vikas Belamkar (Corteva Agriscience)
69	P8 1147-1211	Automated mapping of vegetable crop farms in high-resolution drone multispectral imagery using ensemble machine learning modelling	Manoj Kaushik* (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala)*; Anagha S Sarma (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala); Harsha Chandra (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala); Divya Sharma (SatSure Analytics India Pvt. Ltd., Bangalore); Priyamvada Nanjundiah (SatSure); Rama Rao Nidamanuri (Indian Institute of Space Science and Technology)
458	P9 1211-1223	EVALUATING SUGARCANE YIELD VARIABILITY WITH UAV-DERIVED CANE HEIGHT UNDER DIFFERENT WATER AND NITROGEN CONDITIONS	Anit Upadhyaya (Plaksha University), Rajiv Ranjan (Plaksha University)*; Tejasvi Birdh (Plaksha University); Nandan Mandal (Plaksha University); Dinesh Kumar (Plaksha University); Shashank Tamaskar (Plaksha University)
534	P10 1223-1235	FARM LEVEL MONITORING THROUGH UAV REMOTE SENSING: A NOVEL APPROACH TOWARDS PRECISION FARMING	Pradesh Jena (NESAC)*; Francis Dutta (NESAC); Bijoy Krishna Handique (NESAC); S.P. Aggarwal (NESAC)
70	P11 1235-1247	HYBRID ENSEMBLE LEARNING AND PROBABILISTIC SIMULATION MODELLING FOR DRONE-BASED MULTISPECTRAL IMAGERY CLASSIFICATION FOR CROP MAPPING	Srinija Enimireddy* (Andhra University College of Engineering)*; Manoj Kaushik (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala); Rama Rao Nidamanuri (Indian Institute of Space Science and Technology)

CCS 14: Application of Artificial Intelligence (AI) on Multi-Sensor data for Smart Agriculture (Prof. D. Singh. IITR/IIT Vadodara)

Paper ID		Paper Title	Authors
	Lead Talk 0930 - 0950	Plant-level Trait Predictions with High-throughput Plant Phenotyping	Prof. J. Adinarayana, CSRE, IIT Bombay, India
71	p1 0950 - 1002	Machine Learning and Deep Learning Methods for Large Scale Crop Disease Surveillance	Neha Vital Aritakula (Shri Vishnu Engineering college for Women)*; Harsha Chandra (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala); Rama Rao Nidamanuri (Indian Institute of Space Science and Technology)
72	p2 1002 – 1014	Optimal Wavelengths for Identification of Tomato Crop across Multiple sites and Growth stages	Anagha S Sarma (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala)*; Harsha Chandra (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala); Manoj Kaushik (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala); Divya Sharma (SatSure Analytics India Pvt. Ltd., Bangalore); Priyamvada Nanjundiah (SatSure); Rama Rao Nidamanuri (Indian Institute of Space Science and Technology)
387	p3 1014 - 1026	Transformative Agricultural Monitoring: Enhancing Crop Classification in Jhansi region with Machine Learning	Priyanka Goyal* (Indian Institute of Technology, Kharagpur)*; Adway Mitra (IISC Banagalore); manjira s (TCS)
402	p4 1026 - 1038	EARLY WHEAT YIELD PREDICTION USING SENTINEL-1 DATA: A 2D-CNN DEEP LEARNING APPROACH WITH MACHINE LEARNING INTEGRATION	Ajay Kumar Maurya* (National Institute of Technology Patna)*; Soham Chakraborty (Jadavpur University); Dharmendra Singh (IIT ROORKEE)

TS-18B: 05 Dec. 2024: 1115 - 1300			
		CCS 14: Application of Artificial Intelligence (AI) on Multi-Sensor data for Smart Agriculture	(Prof. D. Singh. IITR/IIT Vadodara)
Paper ID		Paper Title	Authors
417	p5 1115-1127	Advanced Remote Sensing for Climate-Smart Rice Practices: Mapping DSR and TPR in India	Preethi Konkathi (Mitti Labs Limited); Nathan Torbick (Mitti Labs)*; vivek kumar (Mitti Labs Limited); Xiaodong Huang (Mitti Labs Limited); Suyash Mishra (Mitti Labs Limited); Shivang Pandey (Mitti Labs Limited); Ishan Ajmera (Mitti Labs Limited); Chinmay Adhvaryu (Mitti Labs Limited); Edgar Munoz-Basta (The Nature Conservancy)
423	p6 1127-1139	Satellite-Based Field Boundaries Detection in India	Akshay Saini (MittiLabs); Karuna Rai (MittiLabs); Arun Balaji (MittiLabs); Preethi Konkathi (Mitti Labs Limited); Nathan Torbick (Mitti Labs)*
39	p7 1139-1151	Deep Learning-Based Multi-Sensor Remote Sensing For Automated Jute Crop Mapping	Pruthivi Raj Behera (National Remote Sensing Centre)*; Rajyasri Adhikari (Jute Corporation of India Ltd); Uday Kumar Gutta (National Remote Sensing Centre); Abhishek Chakraborty (National Remote Sensing Centre); Rama Mohana Rao (National Remote Sensing Centre); Manjusree P (National Remote Sensing Centre)
128	p8 1151-1203	Influence of Vegetation Features on Corn Yields Estimation Using Different Machine Learning Techniques: A Case Study	Jit Mukherjee (University of Pavia)*; Fabio Dell'Acqua (University of Pavia)
209	p9 1203-1215	Enhancement of Arduino-Based Capacitive Soil Moisture Sensor	Sourav kumar* (IIT BOMBAY)*; Gulab Singh (IIT Bombay); Dishant Yadav (IIT Bombay)
316	p10 1215-1227	Mitigating Bad Ground Truth in Supervised Machine Learning based Crop Classification: A Multi-Level Framework with Sentinel-2 Images	Sanayya A (SatSure)*; Amoolya Shetty (SatSure); Abhijeet Sharma (SatSure); Venkatesh Ravichandran (SatSure); Masthan Wali Gosuvarapalli (SatSure); Sarthak Jain (SatSure); Priyamvada Nanjundiah (SatSure); Ujjal Kr Dutta (SatSure); Divya Sharma (SatSure)

CCS 16: Multi-Sensor Integration with AI/ML innovation for Natural Resource Management (Session Chairs: Prof. V. S. Rathore and Prof. C. Jagannathan, BIT Mesra)

Paper ID		Paper Title	Authors
373	p1 1400-1412	SPATIOTEMPORAL DYNAMICS AND DRIVERS OF WATER USE EFFICIENCY IN NORTHEAST INDIA: IMPLICATIONS FOR FOREST ECOSYSTEMS UNDER CLIMATE CHANGE	Mallika Bhuyan (Birla Institute of Technology, Mesra)*; C. Jeganathan (Birla Institute of Technology, Mesra); G.S. Pujar (National Remote Sensing Centre, Hyderabad)
31	p2 1412-1424	Quantum Annealing based SVM Outperforms Classical SVM in Cloud Feature Remote Sensing Image Classification	Indranil Misra (Space Applications Centre ISRO)*; Manthira Moorthi S (ISRO); Debajyoti Dhar (ISRO)
36	p3 1424-1436	SID-Net: Satellite Image Dehaze Network using Vision Transformers	Aarjav Satia (Pandit Deendayal Energy University)*; Sunita Arya (Space Applications Centre, ISRO); Manthira Moorthi S (ISRO)
115	p4 1436-1448	Deep Feature Map-Driven No-Reference Quality Assessment for Satellite Images	Neeraj Badal (ISRO)*; Vaibhav Malhotra (ISRO); Ichchhit Baranwal (ISRO); Shilpa Prakash (SaC); Nilima Rani Chaube (ISRO)
430	p5 1448-1500	A Hybrid ML-NWP Approach for Predicting GHI and Power to Mitigate Penalties Under CERC's Deviation Settlement Mechanism	Amol Patil (Reliance Industries Limited)*; Dr. Kedar Kulkarni (Reliance Industries Ltd.)
433	p6 1500-1512	Image Registration of High Resolution Chandrayaan-2 Data	Ridhi Makharia* (Manipal University Jaipur)*; Jai G Singla (ISRO); Amitabh Amitabh (ISRO); Nitant Dube (ISRO); Harish Sharma (Manipal University Jaipur)

TS-19B: 04 Dec. 2024 : 1545 - 1730

CCS 16: Multi-Sensor Integration with AI/ML innovation for Natural Resource Management (Session Chairs: Prof. V. S. Rathore and Prof. C. Jagannathan, BIT Mesra)

Paper ID		Paper Title	Authors
470	P7 1545-1557	Restoration of Optically Butted Satellite Images with Spatially Variant Blur Using Multi-Scale Vision Transformer	Sayak Dhole* (KIIT)*; Ashutosh Gupta (Indian Space Research Organization)
374	P8 1557-1609	Challenges and Opportunities of Dhapa landfill Site situated near a community-managed Ramsar site, East Kolkata	Surajit Ghosh (IWMI); Soham Bhattacharya (National Institute of Technology, Durgapur); Soumya Bhattacharyya (National Institute of Technology, Durgapur); Sneha Kour (Birla Institute of Technology Mesra)*; Kounik De Sarkar (IIT Bombay)
473	P9 1609-1621	Integrated Deep Learning Segmentation and Graph Convolutional Networks with Relaxation Labeling for Object Relationship Extraction in Satellite Imagery	RAVI KUMAR YENNI* (Indian Institute of Information Technology, Sri City)*; Arun P V (IIIT Sri City)
144	P10 1621-1633	Evolving Domain Granulation Based Graph Convolutional Neural Network with Co-Teaching for Remote Sensing Image Classification	DASARI ARUN KUMAR* (KSRM COLLEGE OF ENGINEERING)*
489	P11 1633-1645	SA-Modified: A Foundation Model-Based Zero-Shot Approach for Refining Noisy Land-Use Land-Cover Maps	Sparsh Pekhale (SatSure); Rakshith Sathish (SatSure)*; Sathisha Basavaraju (SatSure); Divya Sharma (SatSure)
12	P12 1645-1657	Hybrid 3D-2D Deep Multi-Source Fusion Framework for Cloud Removal from SAR-Optical Data	Jayakrishnan Anandakrishnan (NIT Puducherry)*
499	P13 1657-1709	AN EFFICIENT APPLICATION OF MACHINE LEARNING FOR OBJECT-BASED CLASSIFICATION USING SENTINEL-1 DATA: FOR COMPLEX ENVIRONMENT	Abhinendra Singh* (Bennett University)*; KP Singh (IIT BHU)

TS-20 : 5 Dec 2024 : 1115-1300

Paper ID		Paper Title	Authors
Lead Talk 1115-1135		Satellite Estimates of Soil and Vegetation Water Content: Measurement and Applications	Prof. Karthikeyan Lanka, CSRE, IIT Bombay
67	p1 1135-1147	Machine Learning Driven Enhancement of Soil Moisture using CYGNSS GNSS-R Data and Meteorological Observations over Indian Agriculture Site	Shaurya Vardhan Mishra* (Jabalpur Engineering College, Jabalpur); Sushant Shekhar (Indian Institute of Technology, Kanpur)*; Dharmendra Kumar Pandey (Indian Space Research Organization); Rishi Prakash (Graphic Era Deemed to be University); Somalin Nath (National Centre for Geodesy, IIT Kanpur); Onkar Dikshit (National Centre for Geodesy, IIT Kanpur)
300	p2 1147-1159	Ambiguity in SAR compact-dual polarimetric continuum for agricultural target characterization	Dipankar Mandal* (Indian Institute of Technology Guwahati)*
116	P3 1159-1211	Integrating EOS-04 SAR SMAP Radiometer and CYGNSS GNSS-R Data with Machine Learning for Improved Soil Moisture Retrieval Accuracy	Arpit Raj (Indian Institute of Technology, Kanpur); Sushant Shekhar (Indian Institute of Technology, Kanpur)*; Dharmendra Kumar Pandey (Indian Space Research Organization); Rishi Prakash (Graphic Era Deemed to be University); Anurag Vidyarthi (Graphic Era (Deemed to be University)); Onkar Dikshit (Indian Institute of Technology, Kanpur)
127	P4 1211-1223	Improving EOS-04 (RISAT-1A) SAR based Operational 500m Soil Moisture Product Using Meteorological Observables and Machine Learning Model	aviral tripathi (G.LBajaj); Sushant Shekhar (Indian Institute of Technology, Kanpur)*; Dharmendra Kumar Pandey (Indian Space Research Organization); Rishi Prakash (Graphic Era Deemed to be University); Anurag Vidyarthi (Graphic Era (Deemed to be University)); Onkar Dikshit (IIT Kanpur)
409	P5 1223-1235	Surface Soil Moisture Retrieval based on Model-Based Decomposition of Dual-Polarimetric Sentinel-1 Data	Aparna C (Indian Institute of Technology Jammu)*; Divyesh M Varade (Indian Institute of Technology Jammu)

TS-21A : 03 Dec 2024 : 1400 - 1530			
CCS3: Remote Sensing for Assessing and mitigating climate change impacts and SDGs			Chairs: Prof. Ramavtar (Hokkaido University, Japan) and Dr. Priyanka Sai Nath University
Paper ID		Paper Title	Authors
Lead Talk 1400 - 1420		Geospatial Technologies for SDGs	Prof. Ramavtar, Hokkaido University, Japan
76	p1 1420-1432	ENHANCING SOLAR ENERGY FORECASTING: 1D CNN WITH EXPLAINABLE AI TECHNIQUES	Drishtant Jain* (IIT Bombay)*; Shruti Upadhyaya (IIT Hyderabad); Anand Edlabadkar (IIT Madras); Mahesh Deshmukhe (IIT Hyderabad)
552	p20 1432-1444	CLIMATE DATA FORECASTING USING ARIMA AND HOLT WINTER METHODS	Surendra Singh Choudhary (IIT Roorkee)*; Rashmi Saini (G. B. Pant Institute of Engineering and Technology, Pauri Garhwal); Rahul Raj Choudhary (Govt. Engineering College Bikaner); Laxman Singh Khangarot (Indian Institute of Technology Roorkee)
350	p3 1444-1456	ASSESSMENT OF RENEWABLE ENERGY PARAMETERS AND IDENTIFICATION OF MICRO-CLIMATIC ZONES OVER UT-LADAKH	Saurabh Verma (Indian Institute of Technology Bombay)*; Charu Singh (Indian Institute of Remote Sensing); SOUMYADEEP ROY (Climate Studies, Indian Institute of Technology, Bombay)
353	p4 1456-1508	The Spatial-Temporal Insights Into The Water Surface Temperature of The Kannauj-Patna Stretch of The River Ganga: A Remote Sensing Perspective	Janardan Kachari (IIT (BHU) VARANASI)*; Rajarshi Bhattacharjee (Indian Institute of Technology (BHU)); Herve Piegay (University of Lyon); Shishir Gaur (Indian Institute of Technology (BHU) Varanasi); Anurag Ohri (Indian Institute of Technology (BHU) Varanasi); Ranveer Kumar (Indian Institute of Technology (BHU) Varanasi)
466	p5 1508-1520	CLIMATIC VARIABILITY AND ITS IMPACT ON SEASONAL WATER BODY DYNAMICS IN BIHAR, INDIA: INSIGHTS FROM REMOTE SENSING AND MACHINE LEARNING	SUBHA DAS (BIRLA INSTITUTE OF TECHNOLOGY MESRA)*; Jeganathan Chockalingam (BIRLA INSTITUTE OF TECHNOLOGY MESRA); Virendra S Rathore (Birla Institute of Technology, Mesra, Ranchi)

CCS3: Remote Sensing for Assessing and mitigating climate change impacts and SDGs		Chairs: Dr. Priyanka (Sai Nath University) and Prof. Ramavtar (Hokkaido University, Japan)	
Paper ID		Paper Title	Authors
88	p6 1545 – 1557	Leveraging satellite observations for river discharge monitoring with focus on 30-years of multi-mission radar altimetry and SWOT mission	Pankaj R. Dhote (Indian Institute of Technology, Roorkee)*; Ankit Prof Agarwal (IIT Roorkee); Praveen K Thakur (IIRS-ISRO)
91	p7 1557-1609	Now Let Me Flow : Mapping and Protection of Streams	Sreelekshmi B G (International Centre for Free and Open Source Solutions (ICFOSS))*; Anandhu Satheesan (International Centre for Free and Open Source Solutions (ICFOSS)); Binoy C (International Centre for Free and Open Source Solutions (ICFOSS)); S P Sathya (International Centre for Free and Open Source Solutions (ICFOSS)); Megha K Iyer (International Centre for Free and Open Source Solutions (ICFOSS)); Jayakumar K S (International Centre for Free and Open Source Solutions (ICFOSS)); Sunil T T (International Centre for Free and Open Source Solutions (ICFOSS)); Aswathy A V (Haritha Keralam Mission)
463	p8 1609-1621	Climatic Variability Analysis over Lower Ganga River Basin Using a Non-Parametrical Approach and Machine Learning Models and its Impact.	KSHITIJ DIVYANSH (Birla Institute of Technology, Mesra)*; Virendra S Rathore (Birla Institute of Technology, Mesra, Ranchi)
550	p9 1621-1633	Geospatial Appraisal for Landslide Studies over NW Himalayan States, India	Sujata Dash (ISSA, DRDO)*
495	p10 1633-1645	A rapid assessment of Water Hyacinth (aquatic vegetation) mapping using machine learning for Circular Economic Opportunity in Sri Lanka	Surajit Ghosh (IWMI)*; Chetha Mithsuwi Jaykody (IWMI); Avinandan Taron (IWMI); Pay Drechsel (IWMI)
507	p11 1645-1657	Mapping GHG emissions from Rice Fields in Vietnamese Mekong Delta with Sentinel 1 and Sentinel 5P Data: A Rule-based Approach in Google Earth Engine	Surajit Ghosh (IWMI)*; Pamoda P Rajakaruna (International Water Management Institute); Sneha Kour (Birla Institute of Technology Mesra); Bunyod Holmatov (International Water Management Institute)

RS advances in Natural Disaster Management (Session Chairs: Prof. Sivakumar (SRM), Chennai) and Prof. Trilochan P. NIT Goa)

434	P1 1545 – 1557	A DEEP LEARNING APPROACH TO MAP HIMALAYAN GLACIAL LAKES IN MONSOON USING SYNTHETIC APERTURE RADAR DATASETS	Rashid Hamid Baba (Indian Institute of Technology Guwahati.); Ritu Anilkumar (Indian Institute of Technology Guwahati)*; Rishikesh Bharti (Indian Institute of Technology Guwahati)
506	P2 1557-1609	ENHANCING RIVER DISCHARGE FORECASTING WITH MULTIVARIATE LSTM	Atheeswaran B (Indian Institute of Technology Hyderabad)*; Shrutee Jain (Indian institute of technology Hyderabad); Abhigyan Chakraborty (IIT Hyderabad); Shruti Upadhyaya (IIT Hyderabad)
227	P3 1609-1621	Attention Driven YOLOv9 for Landslide Mapping in Higher Himalayas Using Satellite Images	Naveen Chandra (Wadia Institute of Himalayan Geology)*; Himadri Vaidya (Graphic Era Hill University)
482	P4 1621-1633	HARNESSING FutureGANs FOR HIGH-RESOLUTION THUNDERSTORM AND LIGHTNING NOWCASTING OVER BHOPAL REGION	VED PRAKASH SINGH (India Meteorological Department, Ministry of Earth Sciences, Govt. of India)*; Shubhashish Jena (Indian Institute of Technology Patna); Jimson Mathew (IIT Patna)
157	P5 1633-1645	A Class-balanced Cost Driven Deep Learning Approach for Efficient Land Use Land Cover Classification using Remote Sensing Data	DHIROJ KUMAR Behera (NRSC/ISRO)*; RAAJ Ramsankaran (IIT Bombay); Girish Pujar (NRSC/ISRO); Rajiv Kumar (NRSC/ISRO); Sreenivas K (NRSC/ISRO)
105	P6 1645-1657	Enhancing Cyclone Precipitation Nowcasting with Deep Learning: A Convolutional LSTM Approach Using INSAT 3D Data	Shweta Shukla (ISTRAC); Shivangi Mishra (ISRO)*; Deepak Mishra (IIST)

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406	P7 0930-0942	USE OF MACHINE LEARNING ON SAR DATA TO CLASSIFY SUBMERGED AND FLOODED REGIONS	Ajay Kumar Maurya (National Institute of Technology Patna)*; Prashansa Vasistha (Banasthali Vidhyapeeth, Rajasthan); Bambam Kumar (NIT Patna); Dharmendra Singh (Indian Institute of Technology Roorkee)
323	P8 0942-0954	Exploring Deep Learning Techniques To Nowcast Satellite Precipitation Retrievals	Bhamini Katyal* (Indira Gandhi Delhi Technical University for Women)*; Shruti Upadhyaya (IIT Hyderabad)
335	P9 0954-1006	Forest Fire Forecasting leveraging Modis Satellite Fire Data Using Machine Learning for Jharkhand State, India	Poonam Moral (Birla Institute Of Technology, Mesra)*; Prashant Parasar (Birla Institute of Technology); Nikita RoyMukherjee (BIT, Mesra); Neha Kumari (BIT MESRA, RANCHI); AKHOURI PRAMOD KRISHNA (BIT Mesra); Debjani Mustafi (BIT Mesra); Dr. Abhijit Mustafi (BIT Mesra)
336	P10 1006-1018	GMM ASSISTED CLUSTERING FOR LONG-TERM METEOROLOGICAL DROUGHT PREDICTION IN JHARKHAND USING LSTM	Nikita RoyMukherjee (BIT, Mesra)*; Neha Kumari (BIT MESRA, RANCHI); Prashant Parasar (Birla Institute of Technology); Poonam Moral (Birla Institute Of Technology, Mesra); AKHOURI PRAMOD KRISHNA (BIT Mesra); Debjani Mustafi (BIT Mesra); Dr. Abhijit Mustafi (BIT Mesra)
480	p11 1018-1030	Mapping susceptibility and exposure of flood and drought natural hazards for Kenya	Peniel J. Y. Adoukpe (IMT MINES Alès); Sneha Kour (Birla Institute of Technology Mesra)*
66	p12 1030-1042	A Deep Learning Based Approach for the Detection of Landslide in Image Data	Anshul Sharma (GLA University)*; Ashish Sharma (GLA University, Mathura); Ankush Agarwal (GLA University, Mathura); Pooja Sharma (GLA University)