

Technical Session: TRIP-1, Date-3 December 2024 (14:00 to 15:30)

**GT 1: Advanced Remote Sensing + CCS 16: AI/ML innovation for Natural Resource Management
(Session Chairs: Dr. Rahul Raj, PIXXEL)**

Paper ID	Serial Order	Paper Title	Authors		
38	P1 14:00 to 14:04	COMPARATIVE ASSESSMENT OF SPECTRAL REDUCTION TECHNIQUES AND MACHINE LEARNING CLASSIFIERS FOR HYPERSPECTRAL IMAGE CLASSIFICATION	Samrat Sarkar* (Indian Institute of Technology Bombay)*; Ternikar Chirag Rajendra (Indian Institute of Science(IISc)); Nagesh Kumar D (Indian Institute of Science, Bangalore)		
102	P2 14:04 to 14:08	Monitoring and Deformation of Landslide - Kshetrapal, Chamoli, Uttarakhand Using TLS AND UAV	ASHOK ANAND (IIT ROORKEE)*; Alok Bhardwaj (IIT Roorkee)		
243	P3 14:08 to 14:12	Hyperspectral analysis for Magnesium Estimation in Soil	Rohit P (Center for Wireless Networks & Applications (WNA) Amrita Vishwa Vidyapeetham Amritapuri); Alka Singh (Center for Wireless Networks & Applications (WNA) Amrita Vishwa Vidyapeetham Amritapuri)*; Mageshen VR (Amrita School of agricultural sciences Amrita Vishwa Vidyapeetham Arasampalayam); Sivasabari K (Amrita School of agricultural sciences Amrita Vishwa Vidyapeetham Arasampalayam); Sachin Kurup (Department of Computer Science and Engineering School (CSE) Amrita Vishwa Vidyapeetham Amritapuri)		

294	P4 14:12 to 14:16	A DUAL-BRANCH APPROACH TO HYPER SPECTRAL IMAGE SUPER-RESOLUTION USING DIFFUSION MODELS AND SPECTRAL ATTENTION BLOCKS	Tarun Patibandla* (Indian Institute of Information Technology, Sri City)*; Arun P V (IIIT Sri City)		
83	P5 14:16 to 14:20	CREATION OF TRAINING SETS FROM AIRBORNE LIDAR DATA FOR ML/AI APPLICATIONS: A STUDY OF GROUND POINTS CLASSIFICATION USING SVM	Runjhun Chandra (National Remote Sensing Centre)*; CVKVP Jagannadharao (National Remote Sensing Centre); S Muralikrishnan (National Remote Sensing Centre)		
477	P6 14:20 to 14:24	OUTLIER DETECTION FOR STREAMING 3D LIDAR POINT CLOUDS	Shreelakshmi C R (Indian Institute of Technology Bombay)*; Surya Durbha (Indian Institute of Technology Bombay); Gaganpreet Singh (Indian Institute of technology bombay); Pratyush V Talreja (IIT Bombay); Chetan Mahajan (Indian Institute of Technology Bombay)		
462	P7 14:24 to 14:28	HYPER SPECTRAL IMAGE SPECTRAL-SPATIAL FEATURE EXTRACTION AND CLASSIFICATION USING VISION TRANSFORMER	Sneha R Burnase (RGIT)*; Dr Poonam Niraj Sonar (Rajiv Gandhi institute of technology)		
338	P8 14:28 to 14:32	Predictive Analytics for Enhancing Crop Yield using Generative Adversarial Networks and its Challenges	Ujwala H bharambe (Thadomal shahani engineering college)*; Chaitanya Sachin Kakade (University of Mumbai); Chhaya Narvekar (Xavier Institute of Engineering)		
176	P9 14:32 to 14:36	OPTIMIZING MULTI-CLASS CHANGE SEGMENTATION IN HIGH-RESOLUTION SATELLITE IMAGERY WITH A SIAMESE NETWORK FOR LOW-RESOURCE ENVIRONMENTS	Noopur Srivastava (IIT Roorkee)*; Kamal Jain (IIT Roorkee)		

30	P10 14:36 to 14:40	Signal-to-Noise Ratio (SNR) Analysis across Seasons among Diverse Feature Targets using Multitemporal Resourcesat-2A LISS-3 Imagery	Indranil Misra* (Space Applications Centre ISRO)*; Manthira Moorthi S (ISRO); Debajyoti Dhar (ISRO)		
456	P11 14:40 to 14:44	Spatially Adaptive Super-Resolution via Deep Flow Estimation and Wiener Filtering for Satellite Imagery	Jatin Dhall (Vellore Institute of Technology, Vellore)*; Ashutosh Gupta (Indian Space Research Organization)		
444	P12 14:44 to 14:48	INTEGRATION OF SEMI-SUPERVISION AND ACTIVE LEARNING FOR EFFECTIVE SEMANTIC SEGMENTATION OF REMOTE SENSING IMAGES WITH SPARSE TRAINING SET	Shounak Chakraborty (IIITDM Kurnool)*		
488	P13 14:48 to 14:52	A Lightweight HybridSN for Hyperspectral Image Classification	Hitendra Sarma Thogarcheti (SRINIVASA RAMANUJAN INST OF TE)*		
207	P14 14:52 to 14:58	An efficient spatial domain Local Adaptive algorithm for enhancement of satellite images	Dinesh Kumar Jain (Space Application Center, Indian Space Research Organisation (ISRO))*; Suresh Gurjar (Space Application Center, Indian Space Research Organisation (ISRO)); Devang Mankad (Space Application Center, Indian Space Research Organisation (ISRO))		
468	P15 15:02 to 15:06	REFINED U-NET ARCHITECTURE FOR ACCURATE CLOUD SEGMENTATION IN MULTISPECTRAL SATELLITE IMAGERY: A CASE STUDY OF MAJULI'S CLOUD-COVERED TERRAIN	Nawab Wasim Rahman (The Assam Kaziranga University)*; Dibya Jyoti Bora (The Assam Kaziranga University, Jorhat, Assam)		

Technical Session: TRIP-2, Date: 3 December 2024 (15:45 to 17:30)**GT 2: SAR Imagery Processing Techniques and Applications
(Ms. Rashmi Malik, IIT Kanpur and Dr. Praveen Kumar, IIT Patna)**

Paper ID	Serial Order	Paper Title	Authors		
120	P1 15:46 to 15:50	Investigation of Ground Deformation Associated with Sardar Sarovar Dam using Advanced DInSAR Technique	Krishna Jangid* (Computer Science and Engineering, Government Women Engineering College Ajmer)*; Hari Shankar (Disaster Management Studies Department, Indian Institute of Remote Sensing); Asmit Roy Burman (Disaster Management Studies Department, Indian Institute of Remote Sensing)		
165	P2 15:50 to 15:54	Landslide Deformation Analysis over Joshimath region using the OpenSARLab Cloud-Based Environment	Shubhayan Roy Chowdhury* (Indian Institute of Technology Bombay)*; Divya Sekhar Vaka (Indian Institute of Technology Bombay); Y S Rao (IIT Bombay); Avik Bhattacharya (Indian Institute of Technology, Bombay)		
217	P3 15:54 to 15:58	DELINEATION OF FLOODPLAIN RIPARIAN ZONES FOR ECOLOGICAL HEALTH ASSESSMENT USING REMOTE SENSING	Himanshu Vyas* (Indian Institute of Technology Delhi)*; Ashok Kumar Keshari (Indian Institute of Technology Delhi)		

239	P4 15:58 to 16:02	CROP CLASSIFICATION USING SENTINEL1 DATA AND GOOGLE EARTH ENGINE	Geeta Tushar Desai (AIKTC)*; Dr. Abhay N Gaikwad (BNCOE Pusad)		
298	P5 16:02 to 16:06	EVALUATION OF EOS-04 PolSAR DATA FOR LAND COVER CLASSIFICATION USING MACHINE LEARNING APPROACH	AKSHAT UNIYAL (Indian Institute of Remote Sensing)*; Vinay Kumar (IIRS); SHASHI KUMAR (Indian Institute of Remote Sensing)		
312	P6 16:06 to 16:10	Volcanic Deformation Assessment Using SBAS-Insar And PS-Insar: Kilauea Volcano Case Study	Ajay Kumar (Indian Institute of Technology Bombay)*; Gulab Singh (IIT Bombay); Priyanka . (Sai Nath University)		
343	P7 16:10 to 16:14	Post-Strike Damage Assessment (PSDA) in High-Resolution Synthetic Aperture Radar (SAR) Imagery Using G4U and G5U Algorithms	Baljeet Singh Cheema (IT Bombay)*; Ajay Kumar (Indian Institute of Technology Bombay); Gulab Singh (IIT Bombay)		
361	P8 16:14 to 16:18	A DEFORMATION CASE STUDY OF DARJEELING, WEST BENGAL USING MULTI-TEMPORAL INSAR FOR DEFROMATION STUDY (MInDS)	Shouvik Bhattacharjee (Indian Institute of Technology, Tirupati)*; Mounika Susarla (IIT Tirupati); Avadh Bihari Narayan (Indian Institute of Technology, Tirupati); Ashutosh Tiwari (Virginia Tech National Security Institute, Blacksburg)		
435	P9 16:18 to 16:22	Dual Polarimetric Radar Vegetation Index for Assessing Mangrove Phenological Shifts under Eco-Climatic Stress	Ishita Kariya* (Central University of Rajasthan)*; Laxmi Kant Sharma (Central University of Rajasthan)		

518	P10 16:22 to 16:26	INTERFEROMETRIC ANALYSIS OF GROUND DEFORMATION AND SEISMIC ACTIVITY ASSOCIATED WITH 2017 ISCHIA EARTHQUAKE	SHOUBHANIK MITRA* (MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY)*; Vipin Kumar Maurya (MOTILAL NEHRU NATIONAL INSTITUTE OF TECHNOLOGY); Ramji Dwivedi (MNNIT Allahabad)		
467	P11 16:26 to 16:30	Reconstructing Optical Imagery from Microwave Data: A Neural Regression-Based Framework	Arpan Dawn* (National Institute of Technology Durgapur)*; Kounik De Sarkar (IIT Bombay); Abhiroop Chatterjee (Jadavpur University); Susmita Ghosh (Jadavpur University); Surajit Ghosh (IWMI)		
167	P12 16:30 to 16:34	POINT TARGET ESTIMATION USING CONDITIONAL DIFFUSIONS	Jashank Desai (Auro University); Ichchhit Baranwal (ISRO)*; Anuja CP Sharma (Isro); Nilima Rani Chaube (ISRO)		
459	P13 16:34 to 16:38	NISAR Complementary Interferometric phase fusion of S & L band	Nidhi Chaubey (ADRIN)*; Sumit Pandey (ADRIN)		

166	P14 16:38 to 16:42	PolSARHub: A Large-scale Repository for POLSAR Data	Sayan Panja (Vidyalankar Institute of Technology)*; Varsha Turkar (Vidyalankar Institute of Technology); Samay Shetty (Vidyalankar Institute of Technology); Avinash Dhiran (Vidyalankar Institute of Technology); Bhakti Talele (Vidyalankar Institute of Technology); Yogesh Agarwadkar (InfiCorridor Solutions Private Limited); Mugdha Agarwadkar (A. P. Shah Institute of Technology); Rahul Kotru (Alpa Developers)		
539	P15 16:42 to 16:46	PolSARLearn :- An Educational Plateform for Microwave Remote Sensing	Aanchal Choudhary* (Vidyalankar Institute of Technology)*; Varsha Turkar (Vidyalankar Institute of Technology); Mugdha Agarwadkar (A. P. Shah Institute of Technology); Yogesh Agarwadkar (InfiCorridor Solutions Private Limited); Aarya Shinde (Vidyalankar Institute of Technology); Sai Gurav (Vidyalankar Institute of Technology)		
493	P16] 16:46 to 16:50	AN OVERVIEW OF ARCTIC RFI MONITORING SURVEY	Sreya Ghosh (IIT Indore)*; Harsha A Tanti (Indian Institute of Technology Indore); Abhirup Datta (Indian Institution of Technology Indore); Saurabh Das (Indian Institute of Technology Indore)		

124	P17 16:50 to 16:54	SHIP DETECTION IN SAR IMAGES USING ATTENTIVE YOLOV8 ARCHITECTURE	Sushma R Iliger (NIT Goa)*; Damodar Reddy Edla (National Institute of Technology Goa); Subrat Acharya (National Remote Sensing Centre, ISRO); P Manjusree (National Remote Sensing Centre, ISRO)		
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Technical Session: TRIP-3, Date: 4 December 2024 (11:15 to 13:00)

GT 4: Cryosphere+GT 6: Atmosphere+GT 7: Oceans (Dr. Mugdha A.,and Hari Shankar IIRS)

Paper ID	Serial Order	Paper Title	Authors		
142	P1 11:16 to 11:20	Mapping Seasonal Snow Cover Variation in the Mago River Basin of Arunachal Pradesh using Ensemble Machine Learning Algorithm	Kainat Aziz (IIT guwahati)*; Tamal Majumdar (Indian institute of technology guwahati); Suresh A Kartha (Indian institute of technology guwahati)		
189	P2 11:20 to 11:24	AN IoT SENSOR SYSTEM FOR THE STUDY OF GLACIERS	Raj Kumar Mishra (IIT Bomabay)*; Gulab Singh (IIT Bomabay)		
244	P3 11:24 to 11:28	ESTIMATION OF SNOW DENSITY AND PERMITTIVITY USING ALOS PALSAR-2 FULLY POLARIMETRY	Hemant Singh* (Indian Institute of Technology Jammu)*; Divyesh M Varade (Indian Institute of Technology Jammu)		
355	P4 11:28 to 11:32	Mapping of Permafrost Distribution in Uttarakhand Himalayas using geospatial tools	Sakshi Tripathi (Indian Institute of Remote Sensing)*; Dr. Pratima Pandey (Indian Institute of Remote Sensing); C.M Bhatt (Indian Institute of Remote Sensing)		
371	P5 11:32 to 11:36	Parametric Analysis of Lidder Basin Glaciers in Kashmir Himalayas using Multi-Source Data	Kainat Aziz (IIT guwahati)*; Satheesh Barre (Indian Institute of technology Guwahati); Pradeep Srinivasalu (2Divecha Centre for Climate		

			Change, Indian Institute of Science, Bangalore); Suresh Kartha (Indian Institute of technology Guwahati)		
396	P6 11:36 to 11:40	Multi-Year Glacier Facies Dynamics in the Gangotri Glacier Using Sentinel-1 SAR Data	Abishek T (Vellore Institute of Technology); Surendar Manickam (Vellore Institute of Technology)*		
511	P7 11:40 to 11:44	Evaluating Glacier Mass Balance and Its Impact on Land Water Storage in Northern India Using ICESat-2 and GRACE-FO Data	Nandini Sharma (Harsac)*; Jaspreet K Khaira (Haryana Space Applications Centre); Dharmendra Singh (Harsac); Sultan Singh (Harsac)		
104	P8 11:44 to 11:48	DETECTION OF RAINFALL VARIABILITY ON THE BASIS ORDINAL SCORE	Parthasarathi Mishra (IIT Bhubaneswar)*		
382	P9 11:48 to 11:52	DETECTION OF CONVECTIVE STORMS FROM PPI IMAGES OF POLARIMETRIC DOPPLER WEATHER RADAR USING DEEP LEARNING	KRISHNENDU LALAJI (INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY)*; Deepak Mishra (IIST); Shivangi Mishra (ISRO); Govindan Kutty M (IIST)		
425	P10 11:52 to 11:56	INTEGRATING RADIOSONDE DATA WITH COMPLEX EVENT PROCESSING FOR ENHANCING WEATHER NOWCASTING	Gaganpreet Singh (Indian Institute of technology bombay)*; Surya Durbha (Indian Institute of Technology Bombay); Shreelakshmi C R (Indian Institute of Technology Bombay); Pratyush V Talreja (IIT Bombay); Chetan Mahajan (Indian Institute of Technology Bombay)		

149	P11 11:56 to 12:00	A novel technique for Rain/ No-Rain classification using Outgoing Longwave Radiation data from INSAT-3D	Madhav Kumar (FLAME University); Madhav Gupta (FLAME University); Jayaraman Valadi (Flame University, Pune); Kaushik Gopalan (FLAME University)*		
475	P12 12:00 to 12:04	Design and Development of an IoT-based Greenhouse Gas Monitoring System	Ankit Bara (Indian Institute of Technology (BHU) Varanasi, Uttar Pradesh, India)*; Shyam Bihari Dwivedi (Indian Institute of Technology (BHU) Varanasi, Uttar Pradesh, India); Shishir Gaur (Indian Institute of Technology (BHU) Varanasi, Uttar Pradesh, India); Ranveer Kumar (Indian Institute of Technology (BHU) Varanasi, Uttar Pradesh, India); Shreyansh Mishra (Indian Institute of Technology (BHU) Varanasi, Uttar Pradesh, India); Mayank Bajpai (Indian Institute of Technology (BHU) Varanasi, Uttar Pradesh, India); Rajarshi Bhattacharjee (Indian Institute of Technology (BHU))		
245	P13 12:04 to 12:08	SPATIOTEMPORAL ANALYSIS OF SEA SURFACE SALINITY AND SEA SURFACE TEMPERATURE ALONG THE COASTAL REGION OF KARNATAKA	Chandana A* (National Institute of Technology, Karnataka)*; Shwetha H.R (National Institute of Technology, Karnataka)		

291	P14 12:08 to 12:12	Estimating Trichodesmium Biomass During Bloom Conditions Using In-Situ and Satellite Data	Anima Tirkey (Gujarat University, Ahmedabad)*; Aswathy Vijaya Krishna (Space Applications Centre (ISRO)); Syed Moosa Ali (Space Applications Centre (ISRO)); arvind sahay (SAC); Anurag Gupta (Space Applications Centre, Ahmedabad); Mini Raman (Space Applications Centre (ISRO), Ahmedabad, India); Hitesh Solanki (Department of Botany, Gujarat University, Ahmedabad); Babu KN (Indian space Research Organization)		
190	P15 12:12 to 12:16	PREDICTIVE MACHINE LEARNING MODELLING OF TROPSOPHERIC OZONE USING GEOSPATIAL AND ATMOSPHERIC DATA	Aswitha Tadepalli (Indian Institute of Technology Hyderabad)*; Hari Priyanka Allam (Indian Institute of Technology Hyderabad); Shruti Upadhyaya (IIT Hyderabad)		
122	P16 12:16 to 12:20	Spatiotemporal monitoring of snow cover area of Kashmir Valley from 2002-2022 and its impact on Hydroelectricity generation	SUHAIL AHMAD DAR (LOVELY PROFESSIONAL UNIVERSITY)*; Md Omar Sarif (Lovely Professional University)		

Technical Session: TRIP-4, Day: 4 December 2024 14:00 to 15:30**GT 5: Land Applications (Session Chairs: Pankaj R Dote, IIRS)**

Paper ID	Serial Order	Paper Title	Authors		
271	P1 14:00 to 14:04	Impact Analysis of Anthropogenic Activities on Coastal Vulnerability in Vishakhapatnam City on the Eastern Coast of India using Remote Sensing	Challa S B Haranadh (GITAM); Naina Narang (GITAM)*		
48	P2 14:04 to 14:08	Implications of Batch Normalization and Dropout on Land Cover Categories in Remote Sensing	Rashmi Bhattad (Gujarat Technological University, Chandkheda, Ahmedabad); Dr. vibha Patel (VGEC)*; Usha Patel (Nirma University); Dr. Samir B. Patel (Pandit Deendayal Petroleum University)		
55	P3 14:08 to 14:12	Milli-watershed level Morphometric Analysis on the Rudhrakombai River in Cauvery Basin, Central Tamil Nadu, India: Using GIS and remote sensing	Sathish Kumar B (SRM Institute of Science and Technology); R Sivakumar (SRM Institute of Science and Technology)*		
132	P4 14:12 to 14:16	Assessing the Impacts of Land Cover Change on Kolleru Lake Ecosystem	Megha Negi* (International Institute of Information Technology, Hyderabad)*; Rama Chandra Prasad Pillutla		

			(International Institute of Information Technology, Hyderabad)		
150	P5 14:16 to 14:20	Beyond NDVI: A Proposed Vegetation Cover Index (VCI) for Crop and Vegetation Segregation	HARSH SRIVASTAVA (IIIT Allahabad)*; Triloki Pant (IIIT Allahabad, Prayagraj)		
222	P6 14:20 to 14:24	Assessing Coastal Dynamics of Ashtamudi Wetland using PlanetScope Imageries	Sreevisal G (Amrita Vishwa Vidyapeetham); ANAGHA V V S (Amrita Vishwa Vidyapeetham); Alka Singh (Center for Wireless Networks & Applications (WNA) Amrita Vishwa Vidyapeetham Amritapuri)*		
250	P7 14:24 to 14:28	DETECTION OF BUILDING INFRASTRUCTURE CHANGES FROM BI-TEMPORAL REMOTE SENSING IMAGES	SRAVYA N* (National Institute of Technology Karnataka)*; Vibha Damodara Kevala (National Institute of Technology Karnataka); Akshaya P (National Institute of Technology Karnataka); Basavaraju KS (National Institute of Technology Karnataka); Shyam Lal (National Institute of Technology Karnataka); Deep Gupta (Visvesvaraya National Institute of Technology Nagpur)		
363	P8 14:28 to 14:32	GIS DRIVEN SOLUTION FOR IMPROVING SOLID WASTE MANAGEMENT IN PRAYAGRAJ CITY, INDIA	Alok Ranjan* (MNNIT Allahabad, Prayagraj)*; Rajan Dev Gupta (Motilal Nehru National Institute of Technology Allahabad); NEKRAM RAWAL (MNNITA, PRAYAGARAJ)		

401	P9 14:32 to 14:36	LAND USE LAND COVER CLASSIFICATION AND CHANGE DYNAMICS: A CASE STUDY IN MUMBAI, MAHARASHTRA, INDIA	Kavita Devanand Bathe (K J Somaiya Institute of Engineering and Information Technology,Sion,Mumbai)*; Vimal J Mehta (K. J. Somaiya Institute of Technology); Aditya P. Mehta (K.J. Somaiya Institute of Technology)		
485	P10 14:36 to 14:40	Mapping of Academic Campus of MNNIT Allahabad (India) using ideaForge Q6 Quadcopter Small Category Drone/ UAV	Rajan Dev Gupta (Motilal Nehru National Institute of Technology Allahabad)*; Kandukuri Yaswanth (Motilal Nehru National Institute of Technology Allahabad); PurnChandra Sharma (Motilal Nehru National Institute of Technology Allahabad); Bipul Karna (Motilal Nehru National Institute of Technology Allahabad); Mithlesh Kushwaha (Motilal Nehru National Institute of Technology Allahabad); Harendra Kumar (Motilal Nehru National Institute of Technology Allahabad)		
214	P11 14:40 to 14:44	EVALUATION OF UNET ARCHITECTURE VARIANTS FOR ROAD NETWORK EXTRACTION FROM HIGH RESOLUTION GEOSPATIAL DATASET	Jayakumar T V (Indian Institute of Space Science and Technology)*; Deepak Mishra (IIST); Ramiya A M (IIST); Bhargav Parulekar (IIST); Pranav C V (College of Engineering, Trivandrum); Jai G Singla (ISRO)		

290	P12 14:44 to 14:48	An Atmospheric Correction Integrated LULC Segmentation Model for High-Resolution Satellite Imagery	Soham Mukherjee (Center of Data for Public Good - IISc); Yash Dixit (Center of Data for Public Good - IISc); Naman Srivastava (Center of Data for Public Good - IISc)*; Joel D Joy (Center of Data for Public Good - IISc); Rohan Olikara (Center of Data for Public Good - IISc); Koesha Sinha (Christ(Deemed to be University)); Swarup E (Center of Data for Public Good - IISc); Rakshit Ramesh (Center of Data for Public Good - IISc)		
427	P13 14:48 to 14:52	A NON-LINEAR OBJECT CLASSIFICATION USING OBJECT BASED APPROACH	Sujuma Basumatary (Central Institute of Technology, Kokrajhar); Anowar Hussain Mondal (Central Institute of Technology, Kokrajhar); Saniban Roy (CENTRAL INSTITUTE OF TECHNOLOGY KOKRAJHAR); Pankaj P Singh (CIT)*		
436	P14 14:52 to 14:56	REMOTE SENSING DRIVEN SEASONAL ARIMA APPROACH FOR TEMPORAL ANALYSIS AND FORECASTING OF WATER QUALITY PARAMETERS	Dipali Pawar (Water Technology Centre, ICAR-IARI)*; Ashwini Chandel (Water Technology Centre, ICAR-IARI); Anil Kumar Mishra (Water Technology Centre, ICAR-IARI); Truptimayee Suna (Icar-iari); Kunal Singh (University of Delhi)		
35	P15 14:56 to 15:00	Spatio-temporal monitoring of Srinagar region of Kashmir Valley in India using machine learning	Akash Kashyap (Soban singh Jeena University, Almora)*; Deepanshu Parashar (Map Earth Educational		

		and object-based image analysis technique	Society); Ashwani Kumar (Soban Singh Jeena University, Almora)		
37	P16 15:00 to 15:04	ASSESSMENT OF SPATIAL-TEMPORAL LAND SURFACE TEMPERATURE DYNAMICS USING REMOTE SENSING SPECTRAL INDICES: A CASE OF SEMI-ARID CLIMATE CITY	Sheewani C Patle (Visvesvaraya National Institute of Technology, Nagpur, India)*		
555	P17 15:04 to 15:08	URBAN TREE MAPPING AND INDIVIDUAL CANOPY DEMARCATION FOR FOREST RESOURCE MANAGEMENT USING VERY HIGH-RESOLUTION UAV DATA	Vighnesh Budharapu (Vidyalankar Institute of Technology); Shubham Bhuvad (Vidyalankar Institute of Technology)*; Tushar Garje (Vidyalankar Institute of Technology, Wadala); Varsha Turkar (Vidyalankar Institute of Technology); Mugdha Agarwadkar (A. P. Shah Institute of Technology); Yogesh Agarwadkar (InfiCorridor Solutions Private Limited)		
75	P18 15:08 to 15:12	URBAN GROWTH, URBAN HEAT ISLAND, AND IMPACT ON THE ENERGY SECTOR: A CASE STUDY OF KOLKATA METROPOLITAN AREA	Abhishek Rawat (IIRS)*; Shaifali Garg (IIT Roorkee); Sarushi Bari (IIRS); Shivanshi Yadav (IIRS); Dhanasekaran Kanagasabapathi (IIRS); Bhaskar Nikam (EDPO, ISRO)		

Technical Session: TRIP-5: 4 December 2024 15:45 to 17:30					
Disasters Monitoring and Management ((Chair: Dr. Alka Singh, Amrita Univ. and Ajay Kumar, IITB)					
Paper ID	Serial Order	Paper Title	Authors		
<u>429</u>	<u>P1</u> 15:46 to 15:50	<u>Analyzing Forest Fire Incidents in Kanha National Park, India using FIRMS MODIS data</u>	<u>Sumedha Surbhi Singh (Birla Institute of Technology)*</u>		
<u>135</u>	<u>P2</u> 15:50 to 15:54	<u>HYDROLOGICAL DYNAMICS AND DROUGHT ADAPTATION IN INDIAN FORESTS: COMPARATIVE STUDY OF DROUGHT RESILIENT AND DROUGHT RESISTANT TRAITS BASED ON WATER USE EFFICIENCY IN MOIST AND DRY DECIDUOUS FORESTS</u>	<u>Triparna Sett (Indian Institute of Remote Sensing, ISRO)*; Bhaskar Nikam (Indian Space Research Organization); Hukum Singh (Forest Research Institute)</u>		
<u>293</u>	<u>P3</u> 15:54 to 15:58	<u>HYPERSPECTRAL CLASSIFICATION OF INVASIVE ALIEN PLANTS (IAPS) FROM CO-OCCURRING MANGROVES USING ENSEMBLE LEARNING MODEL</u>	<u>Ajaydas Poolatt (Central University of Tamil Nadu)*; Arun Prasad K (Central University of Tamil Nadu); Gnanappazham L (Department of Earth and Space Sciences, Indian Institute of Space Science and Technology, Valiamala, Thiruvananthapuram, Kerala, India)</u>		

<u>206</u>	<u>P4</u> 15:58 to 16:02	<u>PREDICTIVE MODELLING OF FOREST FIRES IN NAINITAL USING REMOTE SENSING TECHNOLOGIES</u>	<u>Komal Rai (IIT Bombay)*; Nitin Mishra (Graphic Era Deemed to be University); Rishi Prakash (Graphic Era Deemed to be University); Gulab Singh (IIT Bombay)</u>		
<u>537</u>	<u>P5</u> 16:02 to 16:04	<u>FRAMEWORK FOR THE TREE INVENTORY MANAGEMENT TOOL USING WEB GIS</u>	<u>Tanvi B Gadgil (Vidyalankar Institute of Technology, Wadala, Mumbai)*; Varsha Turkar (Vidyalankar Institute of Technology, Wadala, Mumbai); Yogesh Agarwadkar (InfiCorridor Solutions Private Limited); Mugdha Agarwadkar (A. P. Shah Institute of Technology)</u>		
<u>351</u>	<u>P6</u> 16:04 to 16:08	<u>Monitoring Burnt Areas and Backscatter Changes in Simlipal Tiger Reserve with Sentinel-1 and Sentinel-2 Using Google Earth Engine</u>	<u>SHANTI KUMARI (INDIAN INSTITUTE OF REMOTE SENSING DEHRADUN)*</u>		
<u>45</u>	<u>P7</u> 16:08 to 16:12	<u>ASSESSMENT AND MONITORING OF AGRICULTURAL DROUGHT IN LATUR DISTRICT OF MAHARASHTRA</u>	<u>Utkarsh Umesh Gaonkar (Parvatibai Chowgule College of Arts and Science)*; P. Masilamani (Education); Pravina Kerkar (Education)</u>		
<u>483</u>	<u>P8</u> 16:12 to 16:16	<u>CROP WATER REQUIREMENT ESTIMATION FOR RUBBER PLANTATION USING HYPERSPECTRAL REMOTE SENSING</u>	<u>Bhojaraja B E (NMAM IT Nitte)*; Chandan M C (The National Institute of Engineering); Prakash P S (ICHEC)</u>		

163	P9 16:16 to 16:20	<u>Remote Sensing-Based Cropping Pattern Identification and Crop Classification in the Narmada Canal Command Area Using Sentinel Data in Google Earth Engine</u>	<u>Sudesh Singh Choudhary (National Institute of Hydrology Roorkee)*; Sourabh Nema (National Institute of Hydrology); Dilip Barman (National Institute of Hydrology); Malkhan Jatav (National Institute of Hydrology); Akshay Dahiwalé (National Institute of Hydrology)</u>		
276	P10 16:20 to 16:24	<u>ENHANCED CROP CLASSIFICATION THROUGH SATELLITE-IMAGE PROCESSING</u>	<u>Aswitha Tadepalli (Indian Institute of Technology Hyderabad)*; Ravisha Jain (Indian Institute of Technology Hyderabad); Kishalay Mitra (Indian Institute of Technology Hyderabad)</u>		
437	P11 16:24 to 16:28	<u>Exploring Challenges and Results in Crop Type Mapping Using Satellite Imagery</u>	<u>Umang Singh (Thadomal Shahani Engineering College)*; Aniruddh Nagendra Singh (Thadomal Shahani Engineering College); Rajkamal Rajarshi (Thadomal Shahani Engineering College, Mumbai); Puneet Shashidhar Shetty (Thadomal Shahani Engineering College); Ujwala H bharambe (Thadomal shahani engineering college)</u>		
288	P12 16:28 to 16:32	<u>INTEGRATED MONITORING AND ANALYSIS OF METEOROLOGICAL, AGRICULTURAL AND HYDROLOGICAL DROUGHTS IN THE GANGA BASIN IN INDIA</u>	<u>Upasana Jha* (Indian Institute of Technology,Hyderabad)*; Snehil Dubey (Indian Institute of Technology,Hyderabad); Sai Suswara Vaddadi (Indian Institute of Technology,Hyderabad); Shruti Upadhyaya (IIT Hyderabad); Satish</u>		

			<u>Regonda (Indian Institute of Technology,Hyderabad)</u>		
<u>385</u>	<u>P13</u> 16:32 to 16:36	<u>ANALYSIS ON THE IMPACT OF KERNEL FUNCTION PARAMETER TUNING ON SUPPORT VECTOR MACHINES FOR WEED PATCH DETECTION</u>	<u>Vyomika Singh (Indian Institute of Technology)*; Laxman Singh Khangarot (Indian Institute of Technology); Dharmendra Singh (IIT Roorkee)</u>		
<u>107</u>	<u>P14</u> 16:36 to 16:40	<u>Soil Erosion Estimation of Sivasagar district in Assam using the Revised Universal Soil Loss Equation (RUSLE) Model</u>	<u>Karishma Sarma (Cotton University)*; Shyamal Borah (Cotton University)</u>		
<u>108</u>	<u>P15</u> 16:40 to 16:44	<u>Monitoring and Assessment of Carbon stock through geospatial Technique in Sathyamangalam Forest, Erode district, Tamilnadu</u>	<u>Giridharan N (SRM Institute of Science and Technology); R Sivakumar (SRM Institute of Science and Technology)*</u>		

Technical Session: TRIP-6, 5 December 2024 9:30 to 11:00

Disaster Monitoring and Management (Prof. Rama Rao N, IIST.)

Paper ID	Serial Order	Paper Title	Authors		
<u>372</u>	<u>P1</u> 9:30 to 9:34	<u>SPATIO- TEMPORAL SURFACE RUNOFF DYNAMICS AND DAM DISCHARGE ESTIMATION OF PERIYAR RIVER BASIN</u>	<u>Shebin S M (Center for Wireless Networks & Applications (WNA) Amrita Vishwa Vidyapeetham Amritapuri, India); Alka Singh (Center for Wireless Networks & Applications (WNA) Amrita Vishwa Vidyapeetham Amritapuri)*; Dhanya M</u>		
<u>513</u>	<u>P2</u> 9:34 to 9:38	<u>INVESTIGATING THE EFFICACY OF GLOBAL DIGITAL ELEVATION MODELS IN REGIONAL GEOID MODELLING FOR THE INDIAN REGION</u>	<u>Alok Kumar* (Motilal Nehru National Institute of Technology)*; Vipin Kumar Maurya (MNNIT Allahabad); Ramji Dwivedi (MNNIT Allahabad)</u>		
<u>313</u>	<u>P3</u> 9:38 to 9:42	<u>Groundwater stress in India: Integrated analysis of quantity and quality</u>	<u>S Pranoy (Amrita Viswa Vidyapeetham); Stuti Srivastava (Amrita Vishwa Vidyapeetham); Alka Singh (Center for Wireless Networks & Applications (WNA) Amrita Vishwa Vidyapeetham Amritapuri)*</u>		
<u>431</u>	<u>P4</u> 9:42 to 9:46	<u>AN INTEGRATED WEB SOLUTION FOR PLANETARY DATA VISUALIZATION AND EXPLORATION</u>	<u>Ananya Maheshwari* (Manipal University Jaipur)*; Love Lakhwani (Manipal University Jaipur); Pariav D Naik (CHARUSAT); Abhishek Kumar (College); Jai G Singla (ISRO); Amitabh Amitabh (Indian Space Research Organisation); Nitant Dube</u>		

			<u>(Indian Space Research Organisation); Vijaypal Singh Dhaka (Manipal University Jaipur, India)</u>		
<u>439</u>	<u>P5</u> 9:46 to 9:50	<u>Automatic Crater Identification and its Perimeter Prediction Using Deep Learning</u>	<u>Aditya Kumar (University Of Petroleum And Energy Studies); Alakh Sharma (UPES Dehradun); Juhi Agrawal (University of Petroleum and Energy Studies); Anil Kumar (UPES Dehradun)*; Shashi Kumar (IIRS, ISRO)</u>		
<u>367</u>	<u>P6</u> 9:50 to 9:54	<u>GULLY EROSION WITHIN LIU HSIN CRATER, MARS</u>	<u>Shabana Ebrahim (University of Calicut)*; Alok Porwal (Indian Institute of Technology Bombay); Nithya Mullassery (University of Calicut)</u>		
<u>509</u>	<u>P7</u> 9:54 to 09:58	<u>AN APPROACH TO MODEL LUNAR REGOLITH WITH HFSS FOR SYNTHETIC SAR DATA GENERATION</u>	<u>Shrikant muduli* (iit roorkee)*; Dharmendra Singh (IIT Roorkee); Ajay Kumar Maurya (National Institute of Technology Patna)</u>		
<u>328</u>	<u>P8</u> 9:58 to 10:02	<u>Ground Water Level Prediction with Non-Continuous Unevenly Spaced Small Timeseries using Machine Learning</u>	<u>RAJARAJAN VETRISSELVAN (Amrita Vishwa Vidyapeetham); Stuti Srivastava (Amrita Vishwa Vidyapeetham); Alka Singh (Center for Wireless Networks & Applications (WNA) Amrita Vishwa Vidyapeetham Amritapuri)*</u>		
<u>284</u>	<u>P9</u> 10:02 to 10:06	<u>Soil Moisture retrieval using multi-sensor satellite data with Deep Learning over agricultural areas.</u>	<u>Shobhit Pipil (BHU)*; Swati Garg (University of Tuscia); Dr Prashant</u>		

			<u>Kumar Srivastava (BHU); Prof Rajendra Prasad (IIT BHU)</u>		
<u>494</u>	<u>P10</u> 10:06 to 10:10	<u>Making Sensor Data Discoverable</u>	<u>Chetan Mahajan (Indian Institute of Technology Bombay)*; Surya Durbha (Indian Institute of Technology Bombay); Pratyush V Talreja (IIT Bombay); Shreelakshmi C R (Indian Institute of Technology Bombay); Gaganpreet Singh (Indian Institute of technology bombay)</u>		
<u>121</u>	<u>P11</u> 10:10 to 10:14	<u>LiDAR technology for efficient and accurate large-scale mapping and cadastral surveying</u>	<u>Leena Dhruwa* (Indian Institute of Technology Roorkee) *; Pradeep Kumar Garg (Indian Institute of Technology Roorkee)</u>		

Technical Session: TRIP-7, 5 December 2024 11:15 to 13:00

**CCS 7: AI & ML Applications for Natural Disaster Management+CCS-10+CCS13: UAVs and their Applications
(Prof. Sivakumar SRM and Ms. Vyomika Singh, IITR)**

Paper ID	Serial Order	Paper Title	Authors		
272	P1 11:16 to 11:20	ASSESSING CHANGING LANDSLIDE RISKS IN WAYANAD, KERALA THROUGH TEMPORAL SUSCEPTIBILITY MAPPING	JAYATI VIJAYWARGIYA (INDIAN INSTITUTE OF SPACE SCIENCE AND TECHNOLOGY)*; Rushikesh Katkar* (Indian Institute of Space Science and Technology); Ramiya A M (IIST)		
426	P2 11:20 to 11:24	Relevance of ESA World Cover MAP in Flood Classification using SAR images	JAYASREE T V* (CENTRAL UNIVERSITY OF KERALA); Rajesh R (Central University of Kerala)*		
13	P3 11:24 to 11:28	Deciphering Earthquake Precursors: Unraveling the Nexus of Thermal Anomalies, Seismic Activity, and Satellite Data in Ladakh	Yateesh Ketholia (IIRS, ISRO); Anukrati Joshi (IIRS, ISRO); Sushant Shekhar (Indian Institute of Technology, Kanpur); SOMALIN NATH (IIT KANPUR)*		
432	P4 11:28 to 11:32	Leveraging Domain Adaptation for Improved Building Damage Classification: A Comparative Study on Earthquake Point Cloud Data	Pratyush V Talreja (IIT Bombay)*; Surya Durbha (Indian Institute of Technology Bombay)		
51	P5	Risk Assessment of Natural Gas Pipeline Dispersion Using ALOHA	Amit Kumar Singh (Sapienza University of Rome)*; Dipesh Kumar		

	11:32 to 11:36	Modelling and Remote Sensing Techniques	Pandey (NIT Agartala); Pramil Mishra (NIT Agartala); Sima Ghosh (NIT Agartala)		
503	P6 11:36 to 11:40	MULTI-SENSOR EVALUATION OF LIGHTNING ACTIVITY OVER BIHAR & JHARKHAND	Ashmita Jessie Sen (Birla Institute of Technology Mesra)*; Mili Ghosh nee Lala (Birla Institute of Technology Mesra); Swagata Payra (Birla Institute of Technology Mesra)		
184	P7 11:40 to 11:44	IDENTIFICATION OF SELECTED TREE SPECIES USING UAV MULTISPECTRAL IMAGE AND MACHINE LEARNING TECHNIQUES	Aarushi Periwal (TERI SAS)*; Shivam Trivedi (RRSC - South, ISRO); Hebbar R (RRSC - South); Ayushi Vijhni (TERI SAS)		
216	P8 11:44 to 11:48	An Ensemble Learning Method to estimate the leaf nitrogen concentration in citronella crop using UAV-multispectral imaging	Mohd. Saleem Khan (CSIR-CIMAP)*; Zainab Zubair (CSIR-CIMAP)		
322	P9 11:48 to 11:52	UAV-based real-time decision support system using LLMs	S. Raghavendra (Advanced Data Processing Research Institute (ADRIN)); K.C. Emmanuel (Advanced Data Processing Research Institute (ADRIN)); Y.B. Chandrika (Advanced Data Processing Research Institute (ADRIN)); P. Satyamanikyam (Advanced Data Processing Research Institute (ADRIN)); Novaline Jacob (Advanced Data Processing Research Institute (ADRIN)); P.V. Radhadevi (Advanced Data Processing Research Institute (ADRIN)); S Vasavi (VR		

			Siddhartha Engineering College); Sri Harsha Mekala (Velagapudi Ramakrishna Siddhartha Engineering College)*		
450	P10 11:52 to 11:56	Enhancing Sub-Surface Utility Localization through Mobile Augmented Reality: A Visual Approach for 3D Phased Study of Construction with Integrated Utility Mapping	Abhishek Rai (IIT Roorkee)*; Kamal Jain (IIT Roorkee)		
118	P12 11:56 to 12:00	Classification of Crops at Different Nitrogen Levels Using Drone-based Hyperspectral Imaging: A Machine Learning Approach	JAICY K THOMAS (COLLEGE OF ENGINEERING, TRIVANDRUM)*; Dr Dhanya S Pankaj (College of Engineering, Trivandrum); Harsha Chandra (Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala); Rama Rao Nidamanuri (Indian Institute of Space Science and Technology)		
204	P13 12:00 to 12:04	POST FLASH FLOOD DISASTER ANALYSIS UTILIZING UAV PHOTOGRAMMETRY AND GIS. CASE STUDY: MALDEVTA, DEHRADUN	Harshith Clifford Prince (Indian Institute of Remote Sensing)*; Suhas Muralidhar (Indian Institute of Remote Sensing); C. M. Bhatt (Indian Institute of Remote Sensing); Arijit Roy (Indian Institute of Remote Sensing)		
377	P14 12:04 to 12:08	Analysis of Satellite-Derived Bathymetry (SDB) in the Coastal Part of Andhra Pradesh using Sentinel-2 Multispectral Spaceborne Data	Komal Rani (National Institute of Oceanography)*; Pawan Dewangan (National Institute of Oceanography); Sriram Gullapalli (National Institute of Oceanography); Shreya		

			Chowdhury (bBharathidasan University,)		
386	P15 12:08 to 12:12	Blended Satellite Ocean Surface Wind Product Development for the Indian Ocean: Error Variance Optimization and Seasonal Variability Analysis	Shashank Kumar Mishra (Indian Space Research Organisation)*; Rajesh Sikhakolli (NRSC); Rabindra Kumar Nayak (National Remote Sensing Center); Allahudheen Shaikh (NRSC); Reema Mathew (NRSC); Mohammed Suhail (NRSC); G Srinivasa Rao (NRSC); Prakash Chauhan (NRSC)		
191	P16 12:12 to 12:16	Reservoir Water Level Forecasting using Deep Learning	Archita Mallick (Indian Institute of Technology Roorkee)*; Surajit Ghosh (IWMI); Kounik De Sarkar (IIT Bombay); Sudip Roy (IIT Roorkee)		
391	P17 12:16 to 12:20	VEHICLE DETECTION IN UAV IMAGES USING DATA AUGMENTATION AND TRANSFER LEARNING WITH MODIFIED YOLOV9	Vyomika Singh (Indian Institute of Technology)*; Vedant Kashyap (Graphic Era deemed to be University); Laxman Singh Khangarot (Indian Institute of Technology); Dharmendra Singh (IIT Roorkee)		
412	P18 12:20 to 12:24	InSAR based Infrastructural Health Monitoring for Sardar Sarovar Dam, Gujarat, India	PAVITHRA S L (INDIAN INSTITUTE OF REMOTE SENSING)*; Hari Shankar (Indian Institute of Remote Sensing Dehradun)		
442	P19 12:24 to 12:28	Impact of precipitation variability in landslide susceptibility over Idukki, Kerala	Akhya Rajesh (Amrita Vishwa Vidhyapeetham); Dhanya M*		

464	P20 12:28 to 32	CrashGuard : Automated Accident Detection and Prevention system	Vasantha M H (NIT Goa)*, Patchigorla Babu (NIT Goa), Sanjana Malothu (NIT Goa), Nithin Kumar Y B (nit goa)		
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