

ORAL PRESENTATION

Day-2, 12th Dec 2024 (Thursday)

Session-01		
HALL-02- V.C. Building, 4th Floor		
Agriculture and Soil (09.30-11:00hrs)		
Chair: Dr. Bimal Bhattacharya, SAC Ahmedabad		
Co-Chair: Dr Sri. Yogesh AgritechInnovation		
09:30-09:40hrs	Leadtalk: Dr. Bimal Bhattacharya, SAC Ahmedabad Title:	
09:40-09:50hrs	Advanced Acreage Estimation of Kharif Paddy in Arunachal Pradesh using State-of-the-Art Machine Learning and Multi-sensor Satellite Data Integration	CHANDNI C K, chandunavami@gmail.com
09:50-10:00hrs	Village level crop assessment using high resolution RISAT-1A and optical data using ML	Akanksha, akanksha23ddn@gmail.com
10:00-10:10hrs	Mapping of Kharif millets in Bundelkhand Agro-climatic Zone of Uttar Pradesh using Geospatial Technology	AnkitaVerma, ankitavrm2301@gmail.com
10:10-10:20hrs	Evaluation of Advanced classification methods and Site Suitability for Mapping Tea gardens in Bhergaon subdivision, Udalguri district, Assam. Application of Vegetation Index and Machine learning algorithm for effective mapping of Maize, Rapeseed & Mustard and Blackgram	JUMONI BORUAH, boruahjumoni30@gmail.com
10:20-10:30hrs	Deep Learning Models for Classification of Horticulture Plantations using Very High-Resolution Satellite Imagery	Jahnavi Patil Patil, jahnavip502@gmail.com
10:30-10:40hrs	Decoding Sentinel-2 signals from direct seeded rice fields: A learning experience	VK Nageswara Rao Dhumantaroo, dvknrao@gmail.com
10:40-10:50hrs	Geo- Informatics in Mapping and Monitoring Large Scale Sodic Land Reclamation Programme in Uttar Pradesh	Ranjeet Singh Verma, (ranjeetverma38@gmail.com)
10:50-11:00hrs	Closing Remark by Chair Person	

NATIONAL SYMPOSIUM on
REMOTE SENSING FOR SUSTAINABLE FUTURE: A ROAD MAP TOWARDS VIKSIT BHARAT

Day-2, 12th Dec 2024 (Thursday)

Session-04		
HALL-02- V.C. Building, 4th Floor		
Agriculture and Soil(14.00–15:30hrs)		
Chair: Dr. Vijendra Pateriya, Director, Punjab Remote Sensing Centre		
Co-Chair: Dr.SD Tripathi, Director AZURE Clouds Pvt. Ltd.		
14:00–14:10hrs	Lead talk: Dr. Vijendra Pateriya Title:	
14:10–14:20hrs	Development Of Soil And Water Resources Through Suggested Actions Using Remote Sensing And GIS-A Case Study Of Jaunpur District	Saroj, yadavsaroj1989@gmail.com
14:20–14:30hrs	Rice yield estimation based on multi-spectral (Sentinel-2) and SAR (Sentinel-1) data using Machine Learning Algorithms	Neetu, neetu@nrsc.gov.in
14:30–14:40hrs	Geospatial Analysis of Rice Cultivation in Permanent and Shifting Agricultural Areas- A Machine Learning Based Approach in Mizoram	MOUMITA KARMAKAR, moumitanesac@gmail.com
14:40–14:50hrs	Mapping the sowing windows of wheat in Ludhiana District using Sentinel-2 satellite images	Bhupinder Singh, rajadevgan50@gmail.com
14:50–15:00hrs	Integrating Sentinel-2 Satellite Imagery, ERDAS IMAGINE, and GPS for Improved Potato Acreage Mapping and Estimation	Manish Yaduvanshi, myaduvanshi@gmail.com
15:00–15:10hrs	Combining Ground and Satellite Observations to Map Methane Emissions in Rice Agro-Ecosystems	Rahul Nigam, rahul.agmet@gmail.com
15:10–15:20hrs	Agricultural Drought Monitoring in Western India using MODIS Observations	Jalpesh A. Dave (davejalpesh1996@gmail.com)
	ROLE OF AGRICULTURAL TERRACES IN DAMPENING MASS FLUX THROUGH SEDIMENT CONNECTIVITY IN ALAKNANDA RIVER BASIN	Faisal Imam Umrani (fiu3111996@gmail.com)
15:20–15:30hrs	Closing Remark by Chair Person	

NATIONAL SYMPOSIUM on
REMOTE SENSING FOR SUSTAINABLE FUTURE: A ROAD MAP TOWARDS VIKSIT BHARAT

Day-2, 12th Dec 2024 (Thursday)

Session-07		
HALL- 02- V.C. Building, 4th Floor		
Agriculture and Soil (16.00–17:30hrs)		
Chair: Dr. Dharmesh Verma, Terrasense Intellicrop Pvt. Ltd		
Co-Chair: Dr. Sanjay Arora, Senior Scientist CSAIR		
16:00–16:05hrs	Leadtalk: Dr. Dharmesh Verma Title:	
16:05–16:15hrs	Mapping suitable areas for fruit crops in Meghalaya: A Chilling Requirements Approach	Pratibha T Das ptdnesac@gmail.com
16:15–16:25hrs	Application of Vegetation Index and Machine learning algorithm for effective mapping of Maize, Rapeseed & Mustard and Blackgram	Pranjit Kalita pranzitkalita@gmail.com
16:25–16:35hrs	Acreage estimation of Paddy crop using Sentinel-1 temporal SAR data in Google Earth Engine Platform	Vaishnavi Bisen vaishnavibisen@gmail.com
16:35–16:45hrs	Site Suitability Process optimization for Mulberry Plantation Using Machine Learning Technique	M.Navamuniyammal (navamscientist@gmail.com)
16:45–16:55hrs	BRDF Correction for Satellite Imagery: Implementation, Performance, and Evaluation Using Resourcesat-2A Data	Indranil Misra (indranil@sac.isro.gov.in)
16:55–17:05hrs	Spatio-temporal Relationships between Groundwater Extraction and Cropping Intensity Mapped from NDVI Time Series Data using Fast Fourier Transform	Sumit Kumar (sumit.civil18@gmail.com)
17:05–17:15hrs	Leveraging Satellite Remote Sensing and Artificial Intelligence (AI) for Sugarcane Crop monitoring in Cooperative Mill Management Systems- A case study in Gujarat	Nitin Prajapati (nitinprajapati06@gmail.com)
17:15–17:25hrs	Assessment of Agricultural damage due to severe cyclone “REMAL” using Sentinel-1 and Sentinel-2 data for a West Bengal and Bangladesh Region	Ankush Charavande (ankushcharavande17@gmail.com)
17:25–17:30hrs	Closing Remark by Chair Person	

NATIONAL SYMPOSIUM on
REMOTE SENSING FOR SUSTAINABLE FUTURE: A ROAD MAP TOWARDS VIKSIT BHARAT

Day-2, 12th, Dec 2024 (Thursday)

Session-2		
HALL-03- Deen Dayal Upadhyay, V.C. Building, 1th Floor		
FOREST & ENVIRONMENT (09.30–11:00hrs)		
Chair: Dr. CS Reddy, NRSC Hyderabad		
Co-Chair: Dr. Subrata Nandy, Scientist SF, IIRS Dehradun		
09:30–09:35hrs	Leadtalk: Dr. CS Reddy Title: "Earth Observations for Managing Biological Invasions: State of the art and future perspectives"	
09:35–09:45hrs	Evaluating Forest Health: Linking Canopy Structural Attributes with Radar-Based Degradation Metrics	Komal , komalresearch7@gmail.com
09:45–09:55hrs	Environmental Impact Assessment of Mining Area in and Around Khailer village South of Jhansi city in Bundelkhand region, Uttar Pradesh using Geospatial technologies	Dr. Amrit Lal Haldar, amritlalhaldar@gmail.com
09:55–10:05hrs	Frequency Ratio Approach for Forest Fire Susceptibility Mapping of Nagpur Forest Division, Maharashtra State	SHOBHA NAVAJI LOHAR, shobhagis123@gmail.com
10:05–10:15hrs	Prediction of Spectral Indices Over Korba District, Chhattisgarh (India) using Long Short-Term Memory (LSTM) models.	Abhimanyu Kumar Gond, abhimanyukrgond.rs.min21@itbhu.a c.in
10:15–10:25hrs	A Biogeochemical Approach to CO ₂ Monitoring: Upscaling Flux Tower Data with Remote Sensing and BIOME-BGC	Shivani Nilkanth rao Deshmukh ,deshmukhshivani1612@gmail.com
10:25–10:35hrs	Assessment of Ecosystem Functional Diversity in the Western Ghats Using Sentinel-2 Multispectral Data	Nitish Sri Surya Nekkanti, bahamut2442@gmail.com
10:35–10:45hrs	Assessment of Hotspots of Species Irreplaceability and Vulnerability for Biodiversity Prioritization in the Western Ghats, India	Sudhakar Reddy Chintala (drsudhakarreddy@gmail.com)
10:45–10:55hrs	Current and Future Habitat Suitability Modelling of Rhododendron arboreum Sm. Under Climate Change Scenarios Using Integrated CMIP6 and MaxEnt Algorithm in Northwestern Himalaya	Pawan Kumar Thakur (thakurpawankumar0431@gmail.com)
10:55–11:00hrs	Closing Remark by Chair Person	

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Day-2, 12th, Dec 2024 (Thursday)

Session-05		
HALL-03- Deen Dayal Upadhyay, V.C. Building, 1th Floor		
FOREST & ENVIRONMENT (14.00–15:30hrs)		
Chair: Dr. Maneesh, Scientist FRI, Dehradun		
Co-Chair: Ranjeet Singh Verma, RSAC-U.P.		
14:00–14:05hrs	Leadtalk: Dr. Subrata Nandy Title:	
14:05–14:14hrs	Primary Productivity and Regional Climate over India and Adjoining: Responses and Modulation	VIKRAMJEET SINGH, vikramjeet365@gmail.com
14:14–14:23hrs	Predicting the future vegetation type and land use land cover for Simlipal Wildlife Sanctuary using Random Forest and Gradient Boosted regression tree techniques	K R Lakshmi Saranya, drsaranyakotturu@gmail.com
14:23–14:32hrs	Synergistic Utilization of Sentinel-1 and Sentinel-2 Data for Land Use and Land Cover Classification of Uttarakhand, India using Machine Learning Approach	Manish Maurya, maurya99manish@gmail.com
14:32–14:41hrs	Integrating Thermal Sensor Data with SEBAL for Evapotranspiration Estimation: A case study in deciduous forests of India	Neha PA , nehahps7@gmail.com
14:41–14:50hrs	Identification of Sites Mapping of Fresh Water Mangroves in Uttar Pradesh Using Geospatial Techniques	Kaneez Zaman , kaneezzaman@gmail.com
14:50–14:59hrs	Evaluation of Sentinel-2 SNAP chlorophyll estimates against in-situ observations in dusty environment Mining-Induced Forest Cover Loss and Its Impact on Carbon Dynamics: A 20-Year (2000-2019) Global Scale Assessment Using Remote Sensing Datasets	Avinash Kumar Ranjan avinash.ranjan@cuja.ac.in
14:59–15:08hrs	Temporal Analysis Of Glacier Mass Balance In Milam Glacier, Himalaya Using Remote Sensing And Gis	ATHIF SAYYAF (18380204@pondiuni.ac.in)
15:08–15:17hrs	Mining-Induced Forest Cover Loss and Its Impact on Carbon Dynamics: A 20-Year (2000-2019) Global Scale Assessment Using Remote Sensing Datasets	Avinash Kumar Ranjan (avinash.ranjan@cuja.ac.in)
15:17–15:26hrs	Earth Observations for Managing Biological Invasions: State of the art and future perspectives	Sudhakar Reddy Chintala, drsudhakarreddy@gmail.com
15:26–15:30hrs	Closing Remark by Chair Person	

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Day-2, 12th, Dec 2024 (Thursday)

Session-08		
HALL-03- Deen Dayal Upadhyay, V.C. Building, 1th Floor		
Remote Sensing Based Project of Central and State Government Departments (16.00–17:30hrs)		
Chair: Shri PLN Raju, Special Secretary to Govt. of Assam Co-Chair: Dr. Rameshwar Bali Professor Lucknow University		
16:00–16:10hrs	Leadtalk: Shri PLN Raju Title:	
16:10–16:20hrs	Hyperspectral Decision Tree Model for Mangrove Biophysical Parameter Estimation and Health Monitoring in the Gulf of Kutch	Dr. Khushbu Maurya, khushbumaurya.ce@indusuni.ac.in
16:20–16:30hrs	Prospective Assessment of Jute using Mobile App-Based Field Observations (PATSAN): An Online Web-Analytics for Crop Surveillance	Pruthivi Raj Behera, pruthiviraj_behera@nrsc.gov.in
16:30–16:40hrs	Geospatial technology-based landscape metrics for comparative evaluation of cities for planning interventions	Sadhana Jain, sadhana_jain@nrsc.gov.in
16:40–16:50hrs	Use of Remote Sensing Applications and Operational services for the government of Assam in development and governance – role of Assam State Space Applications Centre (ASSAC)	P L N Raju, plnraju@gmail.com
16:50–17:00hrs	A Cloud-based Tool for Efficient Extraction of GEDI LiDAR Data for Targeted area of Interest	Asmita Raj, asmita21345@gmail.com
17:00–17:10hrs	Green Power Estimation using Remote Sensing Technique	Apeksha Parmeshwar Sonare, apeksha2sonare@gmail.com
17:10–17:20hrs	Combating desertification in semi-arid and saline land: RS&GIS-based application for long-term monitoring and restoration of degraded land	MANEESH SINGH BHANDARI (maneesh31803@gmail.com)
17:20–17:30hrs	Closing Remark by Chair Person	

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Day-2, 12th, Dec 2024 (Thursday)

Session-03		
HALL-04- S.S.B. Hall, 1st Floor, Centre of Advance Studies Building		
Water and Earth Science (09.30–11:00hrs)		
Chair: Dr. AK Lohani, Head, Surface WaterHydrology Division, NIH Roorkee		
Co-Chair: Dr Manvendra Saharia, IIT Delhi		
09:30–09:35hrs	Leadtalk: Dr. AK Lohani Title: “Water Resource Management: Challenges and Opportunities”	
09:35–09:45hrs	A Geospatial approach for revival of shahibaoli, badalmambara Lucknow: A water body under Mission Amrit Sarovar	DR. SUDHAKAR SHUKLA ,shuklasudhakar1@gmail.com
09:45–09:55hrs	Effect of snow and glacier changes on melt runoff in the Alaknanda river basin Himalaya	Vishal Singh, vishal18.nihr@gov.in
09:55–10:05hrs	Groundwater Flow Modelling and DRASTIC Model for sustainable management of hard rock aquifer – A case study in Upper Vellar River Basin, Tamil Nadu	Dr.K.Rajaraman, drkrajaraman-cgwb@gov.in
10:05–10:15hrs	Monitoring Urban Land Subsidence in Northwestern India: A PS-InSAR based Analysis of Groundwater Depletion and Infrastructure Risk	Sh. Sashikanta Sahoo, sahoo20012@gmail.com
10:15–10:25hrs	Evaluating the impact of space borne DEM accuracy on watershed delineation: A statistical approach	AKIL VAHIDBHAI MEMON, akilpochi@gmail.com
10:25–10:35hrs	Advanced Numerical Modeling for DANA Cyclone Storm Surge: A Performance Optimization Approach Using LULC and Mesh Refinement	Ankush Charavande , ankushcharavande17@gmail.com
10:35–10:45hrs	Trends and sensitivities of in-situ stream flow to variations in temperature and precipitation levels in the Tawi catchment, Western Himalayas	Komal Kumar Singh (kcrsju66@gmail.com)
10:45–10:55hrs	Satellite Gravity Data Processing for Deriving Accurate Estimates of Monthly Global Water Storage Anomalies	Vasaw Tripathi (183040063@iitb.ac.in)
10:55–11:00hrs	Closing Remark by Chair Person	

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Day-2, 12th, Dec 2024 (Thursday)

Session-06		
HALL-04- S.S.B. Hall, 1st Floor, Centre of Advance Studies Building		
Water and Earth Science (14.00–15:30hrs)		
Chair: Dr. Praveen K-Thakur, Head WRD IIRS, Dheradun		
Co-Chair: Dr. A Uniyal Scientist-SE, RSAC-U.P.		
14:00–14:05hrs	Leadtalk: Sri. A.K. Agarwal Chairman ISRS-Lucknow Title:	
14:05–14:14hrs	Coding to Decode Diwali Pollution	Biplab Biswas, bbiswas@geo.buruniv.ac.in
14:14–14:23hrs	Ground Water Level Prediction Using Random Forest Model For Kaithal Haryana	Jageeta Mahata ,jageetahena@gmail.com
14:23–14:32hrs	Investigating the velocity of Jakobshavn glacier, Greenland: A Remote Sensing approach with SAR	JISLY SHAREEFA M I, jislyshareefa@gmail.com
14:32–14:41hrs	Decadal Annual Glacier velocity trend analysis of Hamtah glacier, Western Himalaya & its hypso-morphometric characteristics	Ritwik Majumdar, rmajumdar@live.com
14:41–14:50hrs	Geo-Environmental Assessment for Identification of Probable Reclamations Zones in and around Vishakhapatnam	Dr Swati Singh , swati.isro@gmail.com
14:50–14:59hrs	Geospatial techniques based assessment of temporal variations in a sector of Ganga River at MadhiyanGhat Bridge site in Farrukhabad district, Uttar Pradesh, India	Aniruddha Uniyal ,drauniyal8@gmail.com
14:59–15:08hrs	Geospatial Analysis of the Integrated Watershed Management Program's Impact on Farmer Income in the Hilly Tribal Region of Sonbhadra, Uttar Pradesh	Animesh Ghosh (animeshghosh022@gmail.com)
15:08–15:17hrs	Impact of El Niño-Southern Oscillations on India's Net Primary Productivity (NPP) and Net Ecosystem Productivity (NEP)	Rabindra Kumar Nayak, rabindrakumar_nayak@nrsc.gov.in
15:17–15:26hrs	Geospatial Appraisal for Landslide Studies over Northwestern Himalayan States, India	Sujata , sdapr2017@gmail.com
15:26–15:30hrs	Closing Remark by Chair Person	

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Day-2, 12th, Dec 2024 (Thursday)

Session-09		
HALL-04- S.S.B. Hall, 1st Floor, Centre of Advance Studies Building		
Disaster Climate Risk & Climate Resilience (16.00–17:30hrs)		
Chair: Dr. IM Bahuguna, Former Deputy Director SAC, Ahmadabad		
Co-Chair: Dr. Kashif Imdad Advisor (UPSDMA)		
16:00–16:05hrs	Lead talk: Dr. Rajashri Bothale Title: "Earth observation for mapping climate change and building resilience"	
16:05–16:13hrs	Flooded Cities: Rapid Satellite Detection of Buildings Impacted by Flooding	Ch. Lakshmi Amani (amanichimata@gmail.com)
16:13–16:21hrs	Quantifying CO ₂ and CH ₄ Emissions from Point Sources over India Using Hyperspectral Satellite Data	Hasmukh K. Varchand (hasmukhahir782@gmail.com)
16:21–16:29hrs	Multi-temporal glacier response on climate change and non-climatic attributes from the Chandra-Bhaga basin of Lahaul-Spiti, Western Himalaya, India	Ankita Paul (ankitapaul98@gmail.com)
16:29–16:37hrs	Inversion-based Fault modeling of the 08 September 2023 Morocco Earthquake from Sentinel-1 dual node DInSAR	Priyom Roy (priyom_roy@nrsc.gov.in)
16:37–16:45hrs	Derma, Libya Floods of 2023: A geospatial data analysis and hydrological modeling perspective	Praveen K Thakur (praveen@iirsddn.ac.in)
16:45–16:53hrs	A Shoreline Change Detection (1999-2023) and Forecasting Using Digital Shoreline Analysis System (DSAS) Tool: A Case Study of Tarawa, Kiribati	Sanghamitra Swain (sanghuswain@gmail.com)
16:53–17:01hrs	Preliminary Assessment of Mining- Induced Geo-Environmental Hazards in Parts of Raniganj Coal Field Area	SOURAV DUTTA (souraviirs@gmail.com)
17:01–17:09hrs	Geospatial Analysis of Land Use Dynamics and Their Impact on Landslide Susceptibility in Wayanad	Nikita Jeetendra Supekar (nikitasupekar92@gmail.com)
17:09–17:17hrs	Carbon Dynamics in the Face of Intense Forest Fires in twentieth century	BALARAMDAS K R (kbalaramdas2728@gmail.com)
17:17-17:25hrs	Meso Level Landslide Hazard Zonation Mapping of Tapovan- Vyasi Route Corridor of NH-58 in parts of Uttarakhand, India	Aniruddha Uniyal (aniruddhauniyal@yahoo.com)
17:25–17:30hrs	Closing Remark by Chair Person	

NATIONAL SYMPOSIUM on
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Day-3, 13th, Dec 2024 (Friday)

Session-10		
HALL-03- Deen Dayal Upadhyay, V.C. Building, 1th Floor		
Satellite Metrology, Metrology, Oceanography, Blue Economy & Current and Future Satellite Mission & Astronomy and Planetary Remote Sensing (09.30–11:30hrs)		
Chair: Dr. Som Sharma, PRL, Ahmedabad		
Co-Chair: Dr. Sachidanad Sahu, ISTRAC/ISRO, Lucknow		
09:30–09:36hrs	Leadtalk: Dr. Som Sharma Title: "Investigations of Atmospheric Clouds as Boundary Layer Using Active Remote sensing Lidar network over India- A-Novel Prospective "	
09:36–09:48hrs	INSAT-3D based assessment of decadal (2014-2023) Cloud cover over Indian sub-continent	Shivali, shivali_v@nrsc.gov.in
09:48–10:00hrs	Retrieval of Water Quality Parameters for Chilika Lagoon using OCM-3	Syed MoosaAli, moosa_ali@sac.isro.gov.in
10:00–10:12hrs	Seasonal variability in Particulate Matter (PM2.5) and influences of meteorological parameters over Lucknow	Dr. Sarvan Kumar, epsvbpu@gmail.com
10:12–10:24hrs	Determining the major phytoplankton functional types during an algal bloom event in the Arabian Sea using PACE hyperspectral data	Haritha M, haridasharitha1996@gmail.com
10:24–10:36hrs	Development Of An Algorithm For The Retrieval Of Ocean Surface Wind From L-Band Synthetic Aperture Radar	Abhisek Chakraborty , abhisek.sac@gmail.com
10:36–10:48hrs	A rigorous Comparative Geological evaluation of a potential Martian Terrestrial Analog site from Kachchh Sedimentary basin of NW India: A Geoheritage significance	Aditya Nishith Dharaiya, adiradhu@gmail.com
10:48–11:00hrs	Remote Sensing approach for small lunar crater detection using Advanced Machine Learning and its applications.	AKSHAYA BOKKA, akshayabokka.sac159@gmail.com
11:00–11:12hrs	Planetary Data Standard (PDS3) to Planetary Data Standard (PDS4) migration for Hyperspectral Imager (HySI) payload onboard Chandrayaan-1	Abdullah Suhail Ayyub Zinjani, abdullah.suhail7@gmail.com
11:12–11:24hrs	Glacial Footprints On Mars: Mapping, Chronology, And Climate Insights From Acheron Fossae Glacial Formation Using High Resolution Satellite Imagery	TANISHA GHOSH, tanisha.20cez0009@iitrpr.ac.in

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11:24–11:30hrs	Closing Remark by Chair Person
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Day-3, 13th, Dec 2024 (Friday)

Session–11		
HALL-04- S.S.B. Hall, 1 st Floor, Centre of Advance Studies Building		
Sensor Technology, Data Processing, UAV, Lidar, SAR & GNSS (09:30–11:30hrs)		
Chair: Dr. Anjana Vyas, Senior Scientist, SAC Ahmedabad Co-Chair: Dr. Nikhil Lele, Senior Scientist SAC, Ahmadabad		
09:30–09:36hrs	Leadtalk: Dr. Anjana Vyas Title:	
09:36–09:48hrs	On the applicability of GNSS radio occultation for top-side electron density prediction using multi-model ML architectures	ABHINEET SHYAM, abhineetshyam@sac.isro.gov.in
09:48–10:00hrs	Study of Soil Moisture from GPS multipath SNR data using Regression Technique	RANI T E, rani_te@nrsc.gov.in
10:00–10:12hrs	Wind Fields Prediction Using ML Models With Gnsro Observations Simulation Of Urban Sprawl Using Geo Spatial Neural Networks	Yasaswini, yasadwinibomminayuni@gmail.com
10:12–10:24hrs	Deep learning based HBIM Framework using Terrestrial LiDAR for Heritage Documentation and Digital Twin Creation	MADHAVAN S (maddysridhar12345@gmail.com)
10:24–10:36hrs	Integrating Lidar And Geospatial Technologies For Enhanced Water Sustainability For Shillong City Water Supply	Fettlman Dohling , fettle25@gmail.com
10:36–10:48hrs	Detection of Flowering and New Flesh in Mango Orchards Using UAV Images and R-CNN	Nagashree mohan , nagashreemohans@gmail.com
10:48–11:00hrs	Advanced Computational Techniques for processing of PRISMA/HysISHyperspectral data potential applications	Saurabh Gangwar, sgrscgeneral@gmail.com
11:00–11:12hrs	GPU Accelerated PAN Sharpening for High Resolution Cartosat-2S/3 Satellite Data	Ankit Choudhary , ankit_c@nrsc.gov.in

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11:12–11:24hrs	An IoT Sensor System For The Study of Glaciers	Raj Kumar Mishra, rkmishra@iitb.ac.in
11:24–11:30hrs	Closing Remark by Chair Person	

Day-3, 13th, Dec 2024 (Friday)

Session–14		
HALL-04- S.S.B. Hall, 1st Floor, Centre of Advance Studies Building		
Sensor Technology, Data Processing, UAV, Lidar, SAR & GNSS, (12.00–13:30hrs)		
Chair: Dr. Asif Siddiqui General Manager ISTRAC/ISRO Lucknow		
Co-Chair: Dr. Hina Pandey Scientist Engineer-SF Photogrammetry and Remote Sensing, IIRS Daharadun		
12:00–12:05hrs	Leadtalk: Dr. Manoj Semwal Principal Scientist, CIMAP Title:	
12:05–12:14hrs	Precision Building Height Estimation by integrating ICESat-2 Photon Data and Google Earth Imagery: A Cutting-Edge Multi-Source Machine Learning Approach	Yogesh Yadav yog9575@gmail.com
12:14–12:23hrs	Synergistic use of SAR, Optical multispectral and Digital Elevation data for Detection of Potential Buried Palaeo-drainage	Hina Pande hina@iirs.gov.in
12:23–12:32hrs	Automatic Image based Satellite Drift Rate Estimation Technique for Optical Remote Sensing Sensors	Indranil Misra indranil@sac.isro.gov.in
12:32–12:41hrs	Mapping Indoor Environments using a modified ICP-based Point-Cloud Registration Technique	Damini Sarma daminis23@iitk.ac.in
12:41–12:50hrs	Geospatial Technology For Sustainable Development With Emphasis on Fabrication Of Nano Satellite	VivekTiwari ervivektiwari.17@gmail.com
12:50–12:59hrs	Sustainable Agriculture Practices and Their Impact on Post-Harvest Losses and Farmer Income in the Lucknow Region	Yadav Manas manasyadav1000@gmail.com
12:59–13:08hrs	Estimating Village-Level Potato Yields Using Remote Sensing and Ground Data in Uttar Pradesh: An Ensemble Approach	Aman Qayum amanqayum@gmail.com
13:08–13:17hrs	Advanced Ensemble Learning Methods for Above-Ground Biomass Prediction Using UAV Multispectral Imaging	Mohammad Saleem Khan, mskhanenv1991@gmail.com

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13:17–13:26hrs	Evaluating the Effect of Flight Altitude on UAV based LiDAR for Crop Height Estimation	Bhavneet Gulati , gulati.bhavneet@gmail.com
13:26–13:30hrs	Closing Remark by Chair Person	

Day-3, 13th, Dec 2024 (Friday)

Session–13		
HALL-03- Deen Dayal Upadhyay, V.C. Building, 1th Floor		
E-GOVERNANCE, DATA SCIENCE AI AND ML (12.00–13:30hrs)		
Chair: Dr. IC Das, National Remote Sensing Centre Balanagar Co-Chair: Shri Sushil Chandra Scientist-F RSAC-U.P.		
12:00–12:05hrs	Leadtalk: Dr. IC Das Title:	
12:05–12:15hrs	Development of Web GIS framework for AI based Geospatial Services	Rahul Kumar, rahulkr193@gmail.com
12:15–12:25hrs	Exploring the Feasibility and Potential of AI Based Landslide Prediction: Assessing Challenges with Data Resolution and Availability	Ranjan Kumar Deka rkdekadev@gmail.com
12:25–12:35hrs	Integrating Deep Learning Technique and Agent – Based Simulation for Real – Time Traffic Analysis in Urban Environments of Dehradun Area	Ayushi Banga, ayushibanga2001@gmail.com
12:35–12:45hrs	Implementing Retrieval-Augmented Generation (RAG) for Enhanced Geospatial Data Querying and Analysis	Nilay Nishant, nilay.nishant@nesac.gov.in
12:45–12:55hrs	COVID-19 social vulnerability mapping in Punjab using spatial statistics	Kumar Saurav, kumar9saurav@gmail.com
12:55–13:05hrs	Open-Source WebGIS Platform for Real-Time Air Quality Monitoring: Enhancing Decision Support for E-Governance in Pune District	Kunal Tanwar, ktanwar0015@gmail.com
13:05–13:15hrs	Deep Learning based Super-Resolution for DEM Quality Enhancement	Vineet Kumar Jaiswal jvineet2000@gmail.com

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13:15–13:25hrs	Machine Learning Application in G.I.S. and Remote Sensing: An Paper Review	Archana, archanabarthwalshivom@gmail.com
13:25–13:30hrs	Closing Remark by Chair Person	

Day-3, 13th, Dec 2024 (Friday)

Session–12		
HALL-05- Lecture Hall, Centre of Advance Studies Building		
E-GOVERNANCE, DATA SCIENCE AI AND ML (09:30–11:30hrs)		
Chair: Prof Kamal Jain, IIT Roorkee Co-Chair: Minakshi Kumar Scientist-SG, Head Academics		
09:30–09:37hrs	Leadtalk: Prof Kamal Jain Title:	
09:37–09:52hrs	Automated Farm Ponds Detection using Satellite Imagery and Deep Learning: Insights from Kadwanchi village, Maharashtra	Sumona Bera, bera.sumona2018@gmail.com
09:52–10:07hrs	Efficient Handling of Multi-User Geo-Processing Services in Web GIS Applications	Manvendra Kumar Pal, manugate2016@gmail.com
10:07–10:22hrs	Transforming Agromet Advisory with Technology- Driven Services Leveraging Geospatial technology for assessment of aquatic resources to support Fisheries Development in Arunachal Pradesh	Jonali Goswami, jonali.goswami@nesac.gov.in
10:22–10:37hrs	Integrating Ecological Indices for Species Diversity to Predict Multi-fractality in Mangrove Ecosystems Addressing Aliased Pixel Challenges of Mixed Mangroves through Advanced Imaging Techniques in Remote Sensing Analyzing Urban Growth and Spatial Dynamics in the Kolkata Metropolitan Area: A Review	Somdatta Chakravorty, csomdatta@rediffmail.com
10:37–10:52hrs	Prediction of Future (2031-2051) Land Use/Land Cover Change Dynamics in Parbati Watershed, India, Using a Coupled CA-Markov-Based Artificial Neural Network Model and MOLUSCE Tool	Pawan Kumar Thakur, thakurpawankumar0431@gmail.com
10:52–11:07hrs	LiDAR for Heights Estimation of Urban Objects for 3D City Model Extracting heights of Urban Objects Using LiDAR	Reedhi Shukla, Reedhi_shukla@nrsc.gov.in

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11:07–11:22hrs	Automatic Road Extraction from Resourcesat LISS-4 Imagery: A Hybrid Approach	Indranil Misra (indranil@sac.isro.gov.in)
11:22–11:30hrs	Closing Remark by Chair Person	

Day-3, 13th, Dec 2024 (Friday)

Session–15		
HALL-05- Lecture Hall, Centre of Advance Studies Building		
E-GOVERNANCE, DATA SCIENCE AI AND ML (12.00–13:30hrs)		
Chair: Dr. Sameer Saran DGM, Scientist-SG, RRSC-North, NRSC/ISRO		
Co-Chair: Dr. Sachidanad Sahoo Scientist Engineer, ISTRAC/ISRO, Lucknow		
12:00–12:07hrs	Lead talk: Dr. Sameer Saran Title:	
12:07–12:22hrs	Automation of LULC on Generic Classes	SUSHANT PATHAK (engg.sushantpathak@gmail.com)
12:22–12:37hrs	Addressing Aliased Pixel Challenges of Mixed Mangroves through Advanced Imaging Techniques in Remote Sensing	Somdatta Chakravortty (csomdatta@rediffmail.com)
12:37–12:52hrs	Occlusion-Aware U-Net Framework for Enhanced Road Extraction in High-Resolution Satellite Imagery	Shankar Naik Rathod Karamtoth (kshankar@cdac.in)
12:52–13:07hrs	A Study Of Transfer Learning Approach In 2d-Cnn Model For Poppy Crop Mapping	ADITI GOEL (aditi_goel1996@hotmail.com)
13:07–13:22hrs	Deep Learning Powered Damage Detection: Preserving The Architectural Legacy Of Cultural Heritage Sites	Om Singh Lilhare (omsinghlilhare191@gmail.com)
13:22–13:30hrs	Closing Remark by Chair Person	