

# InGARSS-2023

## ORAL Session: 1 (Sensing Methods- I)

Room No: R101, Date: 11<sup>th</sup> Dec 2023, Time: 9.30am -11am

Paper No	Authors	Title
259	Moonis Ali, Bharat Lohani, Markus Hollaus and Norbert Pfeifer	Hybrid Approach For Precise Volume Estimation Of Buttressed Trees: Poisson Surface Reconstruction And Treeqsm Integration
162	Athira S, Swaroop Sahoo, Steffy Benny and V Chandrasekhar	Minimum Variance Distortion less Response Based Distributed Beamforming Technique For C-Band Weather Radar
43	Manchikanti Suresh Kumar, T Radhika, M Manju Sarma and Prakash Chauhan	Automatic Geo-Location Accuracy Computation Software For Eos-06: Ocm3 Data Products
208	N Raghavender, P.K Saritha, B Santhisree, S Sri Sudha and Manju Sarma	Cross Calibration Of Resourcesat-2a Liss-3 With Landsat-8 Oli Over Niger-2 Pseudo Invariant Calibration Site
207	Manoj Kumar Mishra, Rishi K Gangwar, Munn Vinayak Shukla, Prashant Kumar and Pradeep Thapliyal	Performance Evaluation Of EOS-07 Millimeter Wave Humidity Sounder (EOS-07 MHS) And Retrieval Of Specific Humidity Profile

**Session Chair-1: Dr. Armando Marino**

**Session Chair-2: Dr. Unmesh Khati**

**Signatures of the Session Chairs:**

# InGARSS-2023

## ORAL Session: 2 (SAR)

Room No: R102, Date: 11<sup>th</sup> Dec 2023, Time: 9.30am -11am

Paper No.	Authors	Title
107 (Online)	Tathagata Chakraborty, Dharmendra Pandey, Sushil Singh, Binita Phartiyal and Deepak Putrevu	Characterization Of Permafrost Active Layer Using Polarimetric Sar And Ground Data Over North-Western Indian Himalaya
46	Arnab Muhuri, Kalifa Goita, Ramata Magagi, Hongquan Wang, Abhinav Verma and Avik Bhattacharya	Impact Of Diurnal Variations On Compact Polarimetric SAR Decomposition
153	Aiswarya Lakshmi K K, Swaroop Sahoo, Sounak Kumar Biswas and V Chandrasekar	Spectral Polarimetry For Inferring The Dynamic Behavior Of Hail, Rain And Their Temporal Evolution In A Convective Storm During The Relampago Field Campaign
260	Hrushikesh Rajeev, Abhishek A Pathak and Punithraj Gururaj	Quantifying Surface Soil Moisture Variability Through Synergistic Applications Of Sar And Machine Learning Techniques
290	Ishita Singh and Sharad Chander	Macro-Scale Spatial Assessment Of Flood Inundated Areas Using Multi-Temporal Sentinel-1 SAR Images
62	Swarnendu Sekhar Ghosh, Unmesh Khati, Sandeep Kumar, Avik Bhattacharya and Marco Lavallo	Gp4f - A Gaussian Process Regression Model For Forest Biomass Retrieval Utilizing Simulated Nisar Data

**Session Chair-1: Dr. Carlos López-Martínez**

**Session Chair-2: Dr. Rajib Panigrahi**

**Signatures of the Session Chairs:**

# InGARSS-2023

## ORAL Session: 3 (ML Applications)

Room No: R104, Date: 11<sup>th</sup> Dec 2023, Time: 9.30am -11am

Paper No	Authors	Title
213	Sankalp Dhondi and Hitendra Sarma Thogarcheti	KMNET for Hyperspectral Unmixing
200	Rahisha Thottoil, Uttam Kumar and Aswathi Mundayatt	Predicting urban expansion using a patch-generating land use simulation (plus) model: a case study in bangalore city, india
287	Pratyush Talreja, Surya Durbha and Chetan Mahajan	Unmasking devastation: near real-time earthquake-induced building damage detection
154	Ujjwal Kumar Swain and Vinay Kumar	Comparative analysis of classification algorithms for pre- and post-minimum noise fraction transformation of prisma hyperspectral data
54	Amos Bortiew and Swarnajyoti Patra	Active Learning Using Multifeature Kernel Sparse Representation Classifier for Hyperspectral Image Classification
161	Hritaban Ghosh, Shankho Subhra Pal, Ankita Saha, Jayanta Mukhopadhyay and Sudeshna Sarkar	Time series prediction of multi-spectral satellite images and its application for cloud removal

**Session Chair-1: Dr. A M Ramiya**

**Session Chair-2: Dr. Shilpa Suresh**

**Signatures of the Session Chairs:**

# InGARSS-2023

## ORAL Session: 4 (Soil and Vegetation Characterization)

Room No: R105, Date: 11<sup>th</sup> Dec 2023, Time: 9.30am -11am

Paper No.	Authors	Title
305	Soma Satya Praveen Mutyala, Suraj Reddy Rodda, Rajashekar Gopalakrishnan, Praveen Kumar Bandi and Anil Yadav	Fire Affected Area Estimation For Long Duration Fire Events In Odisha Using Multi-Sensor Data Fusion And Machine Learning
125	Jayantrao Mohite, Suryakant Sawant, Ankur Pandit and Srinivasu Pappula	Forest Aboveground Biomass Estimation Using Gedi Observations Over Indian Forest
50	Sonakshi Mehrotra, Anil Kumar and Arijit Roy	Vegetation Index-Based Classification Of Pinus Roxburghii And Quercus Leucotricophora In Himalayan Temperate Forest Using Fuzzy Machine Learning Model
224	Sakshi Jain, Unmesh Khati and Vineet Kumar	Soybean Phenology Monitoring Using Synthetic Aperture
295	Chetan Mahajan, Surya Durbha and Pratyush Talreja	Earth Observation(Eo) Datacube Analysis For Applications In Vegetation And Forest Fire
314	Saicharan Vasala and Shwetha H R	Quantification And Assessment Of The Virtual Water Content Of Rice Crop: A Case Study Of Mysore District, India

**Session Chair-1: Dr. Avik Bhattacharya**

**Session Chair-2: Dr. Uttam Kumar**

**Signatures of the Session Chairs:**

# InGARSS-2023

## ORAL Session: 5 (Water Resources)

Room No: R101, Date: 11<sup>th</sup> Dec 2023, Time: 2pm-3.30pm

Paper No.	Authors	Title
147	Ajay Kumar Maurya, Rishika Yadav, Anjana Naga Jyothi Kukunuri and Dharmendra Singh	An Approach To Flood Monitoring With Sentinel-1 Data Over Dehradun Region
235	Vidya A, Poompavai V, Ramachandra Hebbar and Mahantesh K R	Geospatial Techniques For Assessment Of Loss In Reservoir Storage Capacity- A Case Study Of Tungabhadra Reservoir
241	Nalluri Ahalya and Dr H Ramesh	Restoring Wet Troposphere Data In Retrieving Water Level From Minor Track Of Sral Over Srisailam Reservoir, India
291	Kounik De Sarkar, Surajit Ghosh, Soumya Bhattacharyya and Anuva Chowdhury	Mitigating Ch4 Emission From Hydroelectric Reservoirs Using Gee And G-Res: Case Study From A Tropical Reservoir
60	Sandeep Kumar, Swarnendu Sekhar Ghosh, Dipankar Mandal, Alok Porwal and Avik Bhattacharya	A Sentinel-2 Vegetation Health Index

**Session Chair-1: Dr. Chandan MC**

**Session Chair-2: Dr. Simit Raval**

**Signatures of the Session Chairs:**

# InGARSS-2023

## ORAL Session: 6 (Land and Atmospheric Science)

Room No: R102, Date: 11<sup>th</sup> Dec 2023, Time: 2pm-3.30pm

Paper No	Authors	Title
250 (Online)	Dhruv Desai, Mehul Pandya, Himanshu Trivedi, Naveen Agrawal, Jalpesh Dave, Has Mukh Varchand, Parthkumar Parmar, Dhiraj Shah, Vishal Pathak and Manoj Singh	Retrieval Of Atmospheric Water Vapor Using Band Ratio Method And Its Validation With Modis Satellite Data
168	Digambar Londhe and Yashwant Katpatal	An Event Based Analysis Of Vegetation Variation And Its Teleconnections With Enso And Iod Events
217	Vaibhav Tyagi, Saurabh Das, Sambit Kumar Panda and Bipasha Paul Shukla	Investigating The Role Of Horizontal Winds In Understanding Extreme Rainfall Events: 2018 Kerala Floods Case Study
232	Shivika Saxena and Ramji Dwivedi	Leveraging Multi-Source Earth Observations For High Resolution Mapping Of Precipitable Water Vapor
132	Amir Mustofa Irawan, Mercè Vall-Llossera, Carlos López-Martínez, Adriano Camps, David Chaparro, Gerard Portal, Miriam Pablos and Alberto Alonso-González	Impact Of Jet Stream Features On Estimating Burned Areas Using Machine Learning During The South Asian Heatwave Of 2022
143	Shikhar Saxena and Sonam Agrawal	Numerical Simulation Of Surface Albedo And Temperature Over New Delhi Using Nested Wrf Model

**Session Chair-1: Dr. Adway Mitra**

**Session Chair-2: Dr. Avadh Bihari Narayan**

**Signatures of the Session Chairs:**

# InGARSS-2023

## ORAL Session: 7 (Deep Learning)

Room No: R101, Date: 11<sup>th</sup> Dec 2023, Time: 4pm-5.30pm

Paper No	Authors	Title
59 (Online)	Xin Zhao, Rongjie Liu And Yi Ma	HYPERSPETRAL REMOTE SENSING REFLECTANCE DATA AUGMENTATION METHOD FOR RED TIDE DOMINANT SPECIES BASED ON CONDITION GENERATIVE ADVERSARIAL NET
286	Md Aminur Hossain, Ashutosh Gupta, Subhajit Paul, Sanjay K. Singh, S. Devakanth Naidu And Debajyoti Dhar	Reconstruction Of Missing Multiband Images For High Resolution Multispectral Sensors Using Wasserstein Gans
145	Rohit Gandikota And Deepak Mishra	CDQN: Context Infused Sequential Object Detection With Deep Reinforcement Learning In Aerial Images
151	Vivek Parmar, Narayani Bhatia, Shubham Negi And Manan Suri	Exploration Of Optimized Semantic Segmentation Architectures For Edge-Deployment On Drones
198	D Shanmukha Rao, T Radhika, V Keerthi, G Suma, M Manju Sarma And Chauhan Prakash	Remote Sensing Image De-Striping Using Deep Convolutional Networks
252	Hitesh Jain, Sagar Verma And Siddharth Gupta	INVESTIGATING LARGE VISION MODEL TRAINING CHALLENGES ON SATELLITE DATASETS

**Session Chair-1: Dr. Shyam Lal**

**Session Chair-2: Dr. Shilpa Suresh**

**Signatures of the Session Chairs:**

# InGARSS-2023

## ORAL Session: 8 (Remote Sensing)

Room No: R102, Date: 11<sup>th</sup> Dec 2023, Time: 4pm-5.30pm

Paper No	Authors	Title
120	Anjali Raj, Adway Mitra and Manjira Sinha	MAPPING MAHARASHTRA'S SLUMS USING GOOGLE EARTH ENGINE
148	Sai Ganesh Veeravalli, Senthil Balaganesh, Dhanalakshmi Silamaban, Satya Kiran Raju Alluri, Ramanathan V and Uma Sankar Panda	UAV based Topographic Survey of Inaccessible Remote Terrains
193	Shivam Trivedi, Rama Subramoniam S., Manjula V.B., Sudha Ravindranath, Deepika Shetty and Hebbar R.	APPLICATION OF HIGH RESOLUTION SATELLITE IMAGES FOR COMPREHENSIVE SPATIAL DEVELOPMENT PLANNING AT GRASSROOT LEVEL
188	Ellen Brock	Urban heat island in Bangalore at the ward level: An analysis using Google Earth Engine
211	Sehajpal Singh and Deepak Singh	INTERANNUAL VARIATIONS IN SNOW ALBEDO IN MCMURDO CRATER, MARS
280	Abhijith T, Humaira Sanam, Aby K Mathai and Gnanappazham L	MAPPING HIGH-RESOLUTION DIGITAL TERRAIN MODEL USING TERRESTRIAL LIDAR SCANNER IN A MANGROVE WETLAND ECOSYSTEM

**Session Chair-1: Dr. Uttam Kumar**

**Session Chair-2: Dr. Armando Marino**

**Signatures of the Session Chairs:**



# InGARSS-2023

## ORAL Session: 9 (Invited Session On InSAR/GNSS For Assessment Of Landslide And Land Subsidence)

Room No: R104, Date: 11<sup>th</sup> Dec 2023, Time: 4pm-5.30pm

Paper No	Authors	Title
76 (Oral)	Krishna Murari Agrawal, Raghav Mehra and Manavala Ramanujam Venugopalan	L & S BAND AIRBORNE SAR CAMPAIGN OVER USA : DATA PROCESSING AND CALIBRATION
52 (Oral)	Arunkumar Heddallikar, Avik Bhattacharya, Raymond Pinto, Kokila R, Aditya Deodhar and Y. S. Rao Y	GROUND BASED ARC SAR INTERFEROMETRY USING VNA
115 (Oral)	Samneet Thakur, Krishna Murari Agrawal and V Manavala Ramanujam	DEAD RANGE GAPS ESTIMATION IN NISAR S-BAND SWEEP SAR
158 (Oral)	Krishan Kumar and Alok Bhardwaj	SURFACE DISPLACEMENT MONITORING AT JOSHIMATH REGION, UTTARAKHAND USING SBAS-INSAR
257 (Poster)	Vipin Kumar Maurya, Shivam Shukla, Shoubhanik Mitra and Ramji Dwivedi	INVESTIGATING JHARIA COALFIELDS USING SAR INTERFEROMETRY
166 (Poster)	Hari Sanker G, Dhanya M, Neehara Kiran and Nandagopal Krishnan	IMPACT OF LAND USE AND LAND COVER CHANGES ON LANDSLIDE SUSCEPTIBILITY OVER IDUKKI, INDIA

**Session Chair-1: Dr. Rajib Panigrahi**

**Session Chair-2: Dr. Magdalena Fitrzyk**

**Signatures of the Session Chairs:**

# InGARSS-2023

## ORAL Session: 10 (Sensing Methods- II)

Room No: R104, Date: 11<sup>th</sup> Dec 2023, Time: 2pm-3.30pm

Paper No	Authors	Title
28 (Online) (Oral)	Indranil Misra, Abhishek Kumar Sinha, Tushar Shukla, Sunita Arya, Vivek Sharma, Neha Gaur, S Manthira Moorthi and Debajyoti Dhar	INS-2B Nano-MX In-Orbit Sensor Performance And Initial Data Processing Results
182 (Oral)	Keerthi V, Radhika T, Manju Sarma M and Prakash Chauhan	Radiometric Cross Validation Of Resourcesat-2/2a Liss3 Sensor Surface Reflectance Products With Radcalnet Data
114 (Poster)	Parikshit Parasher, Krishna Murari Agrawal and V Manavala Ramanujam	Experiences Of Rfi Signatures In Sar Across Different Frequency Bands
242 (Poster)	Sidharth Misra, Priscilla Mohammed, Alexandra Bringer and Jinzheng Peng	An Overview Of Radio Frequency Interference Detection Techniques For Spaceborne Microwave Passive Remote Sensing
310 (Poster)	Subhash Chandra Bera, Dhaval Upadhyay and Saket Buch	Interference Scenarios In Indian Navigation Satellite Systems

**Session Chair-1: Dr. Y S Rao**

**Session Chair-2: Dr. Avik Bhattacharya**

**Signatures of the Session Chairs:**

# InGARSS-2023

## POSTER Session: 11 (Sensing Methods)

Room No: R101, Date: 12<sup>th</sup> Dec 2023, Time: 2pm-3.30pm

Paper No	Authors	Title
113	Krishna Murari Agrawal, Raghav Mehra, Qamer Saquib, Pragma Arora and Manavala Ramanujam Venugopalan	Eos04 Scansar Polarimetric Processing And Calibration
127	Raghav Mehra, Wasim Akram, Krishna Murari Agrawal and Manavala Ramanujam Venugopalan	Towards Eos-04 Ard Normalized Radar Backscatter (Nrb) Product
225	Richa Goyal, Ankitha Reddy E, Radha Krishna K, Samatha P, Sai Kalpana T, Anupama Sharma and M Manju Sarma	Eos-04 Sar Data Planning To Dissemination
137	Swati Shukla, Hemant Patil, Deepak Ghodgaonkar and Cvn Rao	Target Detection Improvement Using Synchrosqueezing Transform Based If Estimation In Sfcw Radars
190	Parasuram Yadav Palla, Amba Shetty, Bobbi Raghavendra and Venkata Narasimhadhan Adapa	A Meaningful Reformulation Of Relative Spectral Discrimination Power To Analyze Hyperspectral Data
118	Sunni Kanta Prasad Kushwaha, Ammar Dali, Harshit Harshit, Chandra Has Singh, Abhishek Rai and Kamal Jain	Analysis Of Shadow Interference On Chromatic Information In Unmanned Aerial Vehicle Optical Imagery
214	Rashmi Shah, Justin Nguyen, Devin Cody, Jacob Gorelik, Surya Ravikumar, Kameron Larson, Simon Yueh, Mario Chaubell and Garth Franklin	Development Of Phase Stable Instrument For P-Band Signals Of Opportunity Synthetic Aperture Radar
265	Pavithra A, Jhakan M, Akilesh K, Nigil M R and Sabarish Narayanan B	Microwave Ndt For Estimating Organic Textile Dye Residue On Top Soil
88	Hyndavi A, Krishna Prasad A, Latha James, Anjaneyulu R V G, Manju Sarma and Prakash Chauhan	Automated Workflow For The Generation Of Time Composite Mosaic Of Awifs Full India Data

**Session Chair-1: Dr. Avadh Bihari Narayan**

**Session Chair-2: Dr. B S Daya Sagar**

**Signatures of the Session Chairs:**

# InGARSS-2023

## POSTER Session: 12 (SAR)

Room No: R102, Date: 12<sup>th</sup> Dec 2023, Time: 2pm-3:30pm

Paper No	Authors	Title
165	Sai Shruti Vadrevu and Shashi Kumar	Comparative Analysis Of Different Decomposition Techniques Using Airborne Nisar Data In L-Band And S-Band
93	Ali Jamali, Fariba Mohammadimanesh, Masoud Mahdianpari and Avik Bhattacharya	Polsar Image Classification Based On 3d Generative Adversarial Networks
180	Partha Deb Roy, Subhadip Dey, Narayanarao Bhogapurapu and Somsubhra Chakraborty	Estimation Of Surface Soil Moisture Using Modified Oh Model And Dual-Polarimetric Sentinel-1 SAR Data
173	Dnyaneshwar Gawai, Subhadip Dey and Avik Bhattacharya	A Novel Method For Land Cover Classification Using Full-Polarimetric Scattering Spectrum-Based SAR Signatures
58	Abhinav Verma, Avik Bhattacharya, Subhadip Dey, Dipankar Mandal and Juan M. Lopez Sanchez	Deep Forest Based Paddy Phenology Mapping Using Dual-Pol Sar Data
95	Divya Sekhar Vaka and Y. S. Rao	Mapping Land Subsidence In Hyderabad Through Insar Time Series Analysis On The Cloud Based Opensarlab Platform
92	Felix Isundwa, Simpson Morgan, Vahid Akbari, Deepayan Bhowmik, Datta Aviraj, Nagendra Prabhu, Pranuthi Gogumalla, Savitri Maharaj, Silva Thiago Sanna Freire, Srikanth Rupavatharam and Marino Armando	Using Polsar To Assess Temporal Trends Of Water Hyacinth Infestation In Lake Victoria
53	Arunkumar Heddallikar, Raymond Pinto, Avik Bhattacharya, Y. S. Rao Y and Gulab Singh	Precision Level Measurement Using Vna Based Radar Interferometry

**Session Chair-1: Dr. Unmesh Khati**

**Session Chair-2: Dr. Armando Marino**

**Signatures of the Session Chairs:**

# InGARSS-2023

## POSTER Session: 13 (ML Applications)

Room No: R104, Date: 12<sup>th</sup> Dec 2023, Time: 2pm-3:30pm

Paper No	Authors	Title
179 (Online)	Touseef Ahmad, Anand S Sahadevan, Soumyendu Raha, Rosly B Lyngdoh and Deepak Putrevu	Superpixel guided weighted low-rank representation for nonlinear hyperspectral unmixing
31 (Online)	Rohit Singh, Mantosh Biswas and Mahesh Pal	An Automated Cloud Detection Method for Sentinel-2 Imageries
117	Jayantrao Mohite, Suryakant Sawant, Ankur Pandit, Jay Prakash Kumar and Srinivasu Pappula	SUGARCANE AREA MAPPING WITH ZERO LABELS USING HYBRID UNSUPERVISED AND SUPERVISED APPROACH
247	Geetika Barman and B.S. Daya Sagar	A new approach to compute Vector Based Morphological features for Classification of Hyperspectral Image
164	Soorya Suresh and Arun P V	UNMIXING IN LATENT SPACE: A NOVEL UNSUPERVISED APPROACH FOR GEOLOGICAL MAPPING OF LUNAR SURFACE
84	Yash Mittal, Uttam Kumar and Deeksha Aggarwal	Online Incremental Machine Learning Model for Multi-Sensor and Multi-Temporal Satellite Data: A Case Study of Bangalore
236	Amol Patil and Kedar Kulkarni	A HYBRID MACHINE LEARNING - NUMERICAL WEATHER PREDICTION APPROACH FOR RAINFALL PREDICTION
268	Satya Prakash, Jayan Wijesingha, Sunil Nautiyal and Michael Wachendorf	A SYSTEMATIC PROCEDURE FOR LAND USE LAND COVER MAPPING WITH REMOTE SENSING DATA AND MACHINE LEARNING

**Session Chair-1: Dr. Sudipan Saha**

**Session Chair-2: Dr. A. M. Ramiya**

**Signatures of the Session Chairs:**

# InGARSS-2023

## POSTER Session: 14 (Soil and Vegetation Characterization)

Room No: R105, Date: 12<sup>th</sup> Dec 2023, Time: 2pm-3:30pm

Paper No	Authors	Title
274 (Online)	Mukesh Kumar Verma and Manohar Yadav	Tls, Gnss And Ts Survey Planning For Precision Agricultural Applications
189	R. G Rejith, Rabi Narayan Sahoo, Jochem Verrelst, Rajeev Ranjan, Shalini Gakhar, Amrita Anand, Tarun Kondraju, Sudhir Kumar, Mahesh Kumar and Raju Dhandapani	Uav-Based Retrieval Of Wheat Canopy Chlorophyll Content Using A Hybrid Machine-Learning Approach
89	Ali Jamali, Swalpa Kumar Roy, Avik Bhattacharya and Pedram Ghamisi	Sharpened Cosine Similarity U-Net For Deforestation Mapping
248	Alex Mathew, Aby K Mathai, Gnanappazham Lakshmanan and Arun Prasad Kumar	Temporal Analysis Of Mangrove Species Distribution In The Mangroves Of Pichavaram And Bhitarkanika
131	Apoorva Shanthkumar, Mohammed Ahamed Jeelani, Jeganathan Chockalingam and Ramachandra Hebbar	Temporal Sentinel-1 Sar Data For Precise Crop Identification And Monitoring
36	Muskan Borana, Arpitha Iype and Venkata Sai Krishna Vanama	Rapid Mapping Of Potential Soil Erosion Using Earth Observation Images Through Google Earth Engine Cloud Platform
223	Anam Sabir and Unmesh Khati	Monitoring Tree Loss In Urban Areas With Synthetic Aperture Radar Data
275	Bonthu Sandeep Reddy, Shubham Sharma and Shwetha H R	Crop Classification Based On Optimal Hyperspectral Narrow Bands Using Machine Learning And Hyperion Data
258	Shubhangi Wankhede, Leisa Armstrong and Amiya Kumar Tripathy	Agricultural Drought Forecasting Using Ndvi, Vci And Artificial Neural Networks

**Session Chair-1: Dr. Bharat Lohani**

**Session Chair-2: Dr. Subhadip Dey**

**Signatures of the Session Chairs:**

# InGARSS-2023

## POSTER Session: 15 (Water Resources)

Room No: R101, Date: 12<sup>th</sup> Dec 2023, Time: 4pm-5:30pm

Paper No	Authors	Title
101	Parvathi Harikumar, Rajarajan V and Dr. Alka Singh	Study Of Groundwater Stress In Northwest India Using Geospatial Tools
121	Surya Prakash Tiwari and Abdul Azeez S	An Evaluation Of Machine Learning Techniques For Retrieval Of Chlorophyll In Open And Coastal Waters
226	Aparna R and Chandrakanta Ojha	SBAS - Insar Analysis Of Coastal Subsidence In Kerala, India, To Monitor Flood Inundation Risk Due To Relative Sea Level Rise
262	Pavithra B S, Punithraj Gururaj and Abhishek A Pathak	Flood Hazard Mapping Using Gis-Enhanced Multi-Criteria Decision Analysis In Kushalnagara Taluk, India
263	Srinivasan Ravi Prasanth, Yaqoob Mehreena, Kumar Arun Prasad, Sulochana Shekhar and Lakshmanan Gnanappazham	Characterizing Water Dynamics Of Coastal Aquaculture Ponds Using Pixel Based Time Series Analysis
233	Chandana S and Chandan M C	Hydrological Implications Of Lulc Changes In The Netravathi River Basin: Insights From Swat Modeling And Machine Learning Techniques
49	Vijay Suryawanshi, Nasar T and Ramesh H	Groundwater Quality Evaluation In The Gurupura River Basin Using Gis And Remote Sensing Approach
218	Kukku Sara and Eswar Rajasekaran	Analysing The Diurnal Evolution Of Land Surface Temperature During Heat Wave Event At High Spatial Resolution

**Session Chair-1: Dr. Klaus Scipal**

**Session Chair-2: Dr. Carlos Lopez-Martinez**

**Signatures of the Session Chairs:**

# InGARSS-2023

## POSTER Session: 16 (Land and Atmospheric Science)

Room No: R102, Date: 12<sup>th</sup> Dec 2023, Time: 4pm-5:30pm

Paper No	Authors	Title
313 (Online)	Heet S. Joshi, Tejas Turakhia, Mehul R. Pandya and Rajesh Iyer	Investigation Of Optical And Physical Properties Of Aerosol Over Different Sub-Zones Of Ahmedabad, India.
199 (Online)	Akshita Tomar and Charu Singh	Estimation Of Pm 2.5 And Pm 10 During An Intense Dust Episode Over Indian Region Using Satellite Data Set
144	Rohit P, Mira Shivani S and Dr. Alka Singh	Remote Sensing Of The Forest Fire Pollutant Flow Of The 2019 Australian Bush Fire
81	Sheewani Patle and Dr. Vidya Ghuge	Assessing The Influence Of Land Use Land Cover On Urban Climate And Thermal Comfort In Tropical City.
83	Vyomika Singh, Raghav Luthra, Laxman Singh Khangarot and Dharmendra Singh	Deep Learning Model For Minimal Area Detection Of Weed Patches In Uav Imagery
292	Parthkumar Parmar, Mehul Pandya, Himanshu Trivedi, Jalpesh Dave, Hasmukh Varchand, Dhiraj Shah, Vishal Pathak, Dhruv Desai and Manoj Singh	Seasonal Trend Analysis Of Aerosol Over Anand Region With In Situ Measurements
270	Sandeep Kumar Mondal and Rishikesh Bharti	Seismicity Declustering And Impact Assessment Of Kumamoto Region For 2016 Earthquake Sequence
253	Dr. Parthasarathi Mishra and Dr. Srinivasa Ramanujam Kannan	Anthropogenic Moisture Emission And Its Impact In An Urban Environment: A Numerical Study
169	Kamini Sharma and K.C. Tiwari	Hyper-Sharpener For Urban Feature Extraction

**Session Chair-1: Dr. Adway Mitra**

**Session Chair-2: Dr. Avik Bhattacharya**

**Signatures of the Session Chairs:**



# InGARSS-2023

## POSTER Session: 17 (Deep Learning)

Room No: R104, Date: 12<sup>th</sup> Dec 2023, Time: 4pm-5:30pm

Paper No	Authors	Title
138	Harsh Pathak, Yaguang Zhang, Nathan Sprague, Dennis Buckmaster, John Evans, Somali Chaterji and James Krogmeier	Autonomous Navigation In Digital Agriculture: Using The Segment-Anything-Model For Corn Row Identification
75	Prakash Pulinja Subrahmanya and Bharath Raj	Investigating The Viability Of Detecting Rooftop Solar Photovoltaics Via Convolutional Neural Networks Using Remote Sensing Images
130	Pyare Lal Chauhan, Jayati Vijaywargiya and Anandakumar M Ramiya	Addressing Class Imbalance Challenge In Semantic Segmentation Of ALS Data Through Performance Analysis Of Randla-NET And Pointnet ++
197	Naveen Chandra and Himadri Vaidya	ATTENTION-BASED Yolov5 MODEL FOR ENHANCING LANDSLIDE DETECTION IN REMOTE SENSING IMAGERY
304	Parasuram Yadav Palla, Amba Shetty, Bobbi Raghavendra and Venkata Narasimhadhan Adapa	1-D CNN For Mineral Classification Using Hyperspectral Data
315	Akhil Galla, Samrat B, Nithish Reddy Banda and Dr. Arun Pv	Optimizing Lunar Hyperspectral Image Classification Via Graph Formulation And Latent Space Fusion
149	Deeksha Aggarwal, Uttam Kumar and Rikhil Gupta	Comparative Analysis Of Unsupervised Pre-Training Models For Lulc Classification With Limited Labelled Data
55	Sudipan Saha and Naimish P. Machchhar	Enhancing Confidence Of Unsupervised Change Detection In Hyperspectral Images
316	Samrat B, Nithish Reddy Banda, Akhil Galla and Dr Arun Pv	Navigating Noise In Chandrayaan-2's IIRS Hyperspectral Data: Advancing Quality Via Deep Learning And SURE Loss

**Session Chair-1: Dr. B S Dayasagar**

**Session Chair-2: Dr. Deepak Mishra**

**Signatures of the Session Chairs:**

# InGARSS-2023

## POSTER Session: 18 (Remote Sensing)

Room No: R105, Date: 12<sup>th</sup> Dec 2023, Time: 4pm-5:30pm

Paper No	Authors	Title
296 (Online)	Thahira U and Dr. Dericks Praise Shukla	Geomorphic Analysis Of An Unnamed Crater In The Diarcia Quadrangle(Mc-2): For The Presence Of Water Ice Signatures Using Sharad Radargrams
116	Poorva Singh and Vinay Kumar	Evaluation Of Chandrayaan – 2 lirs Data For Lunar Surface Exploration
243	Pritipadmaja Pritipadmaja, Rohit Sharma, Dyutisree Halder and Rahul Dev Garg	Mapping Persistent Urban Heat Islands: A Decadal Study Of Land Surface Temperature Pattern Of Bhubaneswar
87	Mariapia Rita Iandolo, Francesca Razzano, Chiara Zarro, G. S. Yogesh and Silvia Liberata Ullo	Multitemporal Analysis In Google Earth Engine For Detecting Urban Changes Using Optical Data And Machine Learning Algorithms
184	Chiranjeevi G Vivek, Siva Sai Kumar Rajana and Sridevi Jade	Noise Analysis And Velocity Uncertainties Of Multi-Gnss Time Series
255	Minal Bodke and Sangita Chaudhari	Crypto-Watermarking Scheme For Secure Transmission And Protection Of Satellite Images
272	Dinesh Jain, Wasim Akram, Jignesh Kumar Kshatriya, Shivani M Shah and V Manavala Ramanujam	Data Processing For Millimeterwave Humidity Sounder(Mhs) Of Eos-07 Mission
289	Shivam Shukla, Vipin Kumar Maurya and Ramji Dwivedi	Comparative Analysis Of Pwv By Using Gamit And Pride Ppp-Ar
86	Francesca Razzano, Mariapia Rita Iandolo, Chiara Zarro, G. S. Yogesh and Silvia Liberata Ullo	Integration Of Sentinel-1 And Sentinel-2 Data For Earth Surface Classification Using Machine Learning Algorithms Implemented On Google Earth Engine

**Session Chair-1: Dr. Subhadip Dey**

**Session Chair-2: Dr. Sangita Chaudhari**

**Signatures of the Session Chairs:**