



ISRSNS2020

Technical Program Schedule

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Day-1: December 18, 2020**09.00-09.05: Welcome Address by Chairman ISRS- AC (Ahmedabad Chapter)****09.05-09.10: Address by Chairman ISG- AC (Ahmedabad Chapter)****Session: TS-1A – Environment-1**

Session Chair: Dr. Shantanu Bhatwadekar Session Coordinator: Shri Devang Mankad Rapporteur: Shri Rosly Boy			Time: 09.15-11.00 (18 Dec. 2020) Venue: Hall A
Sr. No.	Abstract ID	Presenter	Title
0.	Lead_TS1A	Mehul R Pandya	Recent developments in remote sensing of Environment
1.	H6856	Shard Chander	Seasonal variation of Ganga river water quality: Improved WQ during lockdown (Covid-19 impact)
2.	G6579	Chaithanya D. Jain	Phase-wise analysis of the COVID-19 lockdown impact on Aerosol, Radiation and Trace gases and associated chemistry in a tropical rural
3.	V8134	Akhil Nair	Comparison of Land Surface Temperature (LST) During and Before the lockdown of Covid-19 over India
4.	G9129	Bikash Ranjan Parida	Satellite-derived Atmospheric NO ₂ concentration during SARS COVID-19 Pandemic and Its Impact on Air Quality at Global scale
5.	X7507	Anil Kumar Singh	Impact of lockdown on air quality in Indian metro cities during COVID-19 pandemic
6.	C7714	Madineni Venkat Ratnam	Effect of COVID-19 lockdown on the aerosol and trace gases spatial distribution over India obtained using satellites measurements
7.	E6716	Minal Patel	Monitoring Spatio-temporal variability of Water Quality Using Remote Sensing Data : A case study of Pre, During And Post COVID Phase

Session: TS-2A – Environment-2

Session Chair: Dr. Mehul R. Pandya Session Coordinator: Shri Devang Mankad Rapporteur: Shri Rosly Boy			Time: 11.20-13.00 (18 Dec. 2020) Venue: Hall A
Sr. No.	Abstract ID	Presenter	Title
1.	M2335	Praveen Gupta	Three decades of National Wetland Inventory and Assessment Programme
2.	T1068	Soukhin Tarafdar	Analysis of land use / land cover change and demographic transformation over one decades in rural landscapes of Mid-Himalayan
3.	G2285	Parminder S. Ranhotra	Tree-line and age stand structure of Abies in the monsoon dominant temperate region of western Himalaya
4.	J9112	Kusum Lata	Relationship of Crop Residue Fire Incidents with Burnt Area and Air Quality
5.	P4865	Insha Bhat	Mapping the Vegetation-Water Dynamics of Dal Lake on Monthly Basis Using Remote Sensing Data from 2010-2019
6.	S4976	Apurba Kumar Bera	Variability of planetary boundary layer (PBL) height over Rajasthan desert region – a study based on radiosonde observations and INSAT 3D
7.	R9524	Somnath Bar	Synergistic association between forest fire burn area and atmospheric pollutants over Uttarakhand and Himachal Pradesh, Western Himalaya
8.	W2965	Srishti Gwal	Simulation of Water Balance Components as Indicators of Ecosystem Services in a Himalayan Watershed using Soil and Water Assessment Tool
9.	E2341	Subrahmayam Kandula	C-band Polarimetric Doppler Weather Radar observations during an extreme precipitation event and associated dynamics over Peninsular India
10.	N3204	Tanvi Hussain	Habitat Suitability Analysis and Corridor Mapping of Asiatic Elephants in Barduar and Mayang Hill Reserve Forest of Kamrup West Forest

Session: TS-3A - Environment-3

Session Chair: Dr. Pradeep Thapliyal Session Coordinator: Shri Devang Mankad Rapporteur: Shri Rosly Boy			Time: 11:20-13:00 (19 Dec. 2020) Venue: Hall A
Sr. No.	Abstract ID	Presenter	Title
1.	W4914	Manoj K. Mishra	Aerosol observations during COVID-19 lockdown from Indian Satellite
2.	V7076	Mohammadsajid Khalifa	Impact of COVID Induced Lockdown on Radiative Forcing Over Ahmedabad City
3.	R3826	Nikhil Lele	Covid-19 lockdown impact on vegetation fires and forest productivity in India
4.	T8209	Prayagraj Singh	Impact of strict lockdown due to COVID-19 pandemic on air pollution over major locations of Uttar Pradesh
5.	M6206	Darshana Rawal	Dramatic and Conspicuous Impact of National Lockdown 2020 on Air Pollution Levels of Ahmedabad District
6.	F7864	Rajani Kant Verma	Space based observations of CO ₂ and CH ₄ concentration by GOSat over India during COVID-19 lockdown
7.	B9608	Jigisha Patel	Impact of lockdown on cloud properties over Indian land region
8.	K9013	Vaibhav Trivedi	Impact on Nitrogen Dioxide (NO ₂) and Sulphur Dioxide (SO ₂) over the region of Gujarat during COVID-19 lockdown
9.	G5578	Akash Biswal	Impact of COVID-19 lockdown on NO ₂ levels over urban India assessed by remote-sensing and in situ observations
10.	G3086	Bibin K Augastian	Effect of lockdown on atmospheric parameters over few major cities of India

Session: TS-4A - Climate

Session Chair: Dr. Som Kumar Sharma Session Coordinator: Shri Devang Mankad Rapporteur: Shri Rosly Boy			Time: 14:00-16:00 (19 Dec. 2020) Venue: Hall A
Sr. No.	Abstract ID	Presenter	Title
1.	J6885	Som Kumar Sharma	Classification of Dust/Aerosols over Ahmedabad using Ground-based Raman Lidar and HYSPLIT and MACC-II Model
2.	R6560	Anirudh Verma	Long term monitoring of the alpine plant communities of western Himalaya for assessing the impact of changing climate
3.	N2141	Bikash Ranjan Parida	Spatial-temporal Patterns of vegetation trends and Responses from Climate and Non-climate Factors
4.	C6956	Chintan Maniyar	Assessing the Ecological Impact of Hurricane Matthew on South Carolina Coastal Marshes and Forests using Time Series Analysis
5.	K6378	Kriti Rastogi	Generation of Intensity Duration Frequency rainfall curves for assessing climate change
6.	D2621	Nirmal Kumar	Predicting hydrologic dynamics in a trans-boundary river basin of Himalayan region under different climate projections
7.	W7621	Pousali Chakraborty	Impact of Climate Change On Landuse Landcover :Case of Nagpur Metropolitan Region
8.	G5449	Rafeeqe MK	Shoreline changes and Future Concerns on SW Indian Coast- Insights from Kozhikkode using Geospatial Approach
9.	V4185	Sudeep Chandra	Long term exposure to elevated CO ₂ cause acidity in alpine soil, affect plant physiology and biochemistry
10.	O4162	Sushilkumar Rehpade	Soil Respiration Variability among different land uses of Jodhpur District (Arid Region of Western Rajasthan)
11.	K1101	Swadhina Koley	Assessing the impact of climate change on the vegetation health and predicting future drought vulnerability
12.	F7359	Yogeshkumar Patel	Effect of Diwali celebration on the concentration of Carbon Monoxide (CO)

Session: TS-1B – Agriculture

Session Chair: Dr. S S Ray Session Coordinator: Shri Manish Parmar Rapporteur: Shri Chirag Wadhwa			Time: 09.15-11.00 (18 Dec. 2020) Venue: Hall B
Sr. No.	Abstract ID	Presenter	Title
0.	Lead_TS1B	B K Bhattacharya	Recent developments in remote sensing of Agriculture
1.	C8297	Karan Choudhary	Block level crop area estimation using Remote Sensing data for crop insurance
2.	N4769	Anwasha Majumdar	Assessing the effect of crop residue burning on the release of NO ₂ in Punjab
3.	T4478	Devansh Desai	A Physics based Surface Energy Balance Model for estimating large scale Evapotranspiration using high resolution ECOSTRESS data over India.
4.	V4672	H. V. Parmar	Water Productivity Mapping using Surface Energy Balance Approach in Canal Irrigation Command
5.	D4321	Jayati Vijaywargiya	Crop Phenology extraction using Big Geospatial Datacube
6.	C7858	Justin George K	DIGITAL MAPPING OF SOIL NUTRIENTS USING ENVIRONMENTAL COVARIATES EMPLOYING RANDOM FOREST MODELLING
7.	L7687	Neetu	Establishing four JECAM (Joint Experiment for Crop Assessment and Monitoring) Test Sites in India

Session: TS-2B – Agriculture and Forest

Session Chair: Dr. K R Manjunath Session Coordinator: Shri Manish Parmar Rapporteur: Shri Chirag Wadhwa			Time: 11.20-13.00 (18 Dec. 2020) Venue: Hall B
Sr. No.	Abstract ID	Presenter	Title
1.	T6527	Nita Bhagia	Comparative evaluation of soybean crop (Glycine max) inventory using satellite-based optical and microwave data in homogeneous crop region of Madhya Pradesh
2.	N8693	Rahul Nigam	Characterization of Methane Fluxes over Rice Crop using ground and Satellite Sensing: A case study over Nawagam- Gujarat
3.	Y7533	Alpana Shukla	A Non-destructive estimation of Chlorophyll-a and b over different crops using airborne imaging spectroscopy observations
4.	E5912	Dinesh Dasa	Analyzing the dynamics of Dang Forest of Gujarat using remotely sensed Normalized Difference Vegetation Index, Statistical Analysis and GIS Modelling
5.	O6799	Preeti Tahlani	Towards Operationalizing Remote Sensing based Horticulture Crop Estimation
6.	S5080	Sonal Arora	Forest Density (Habitat Dynamics) Assessment of Galliformes in Govind Pashu Vihar National Park and Surroundings from 1994-2016
7.	M5274	Virat Arora	Monitoring of Crop Residue Burning in Bundi District of Rajasthan using Remote Sensing and GIS Technology
8.	E8754	Ajit Kumar Yadav	Inversion of Oh, MDB models for retrieving soil surface parameters using Sentinel-1 data.
9.	W4084	Sunil Kumar Dubey	Operational implementation of smart sampling (remote sensing based sampling) technology for crop cutting experiments under Pradhan Mantri Fasal Bima Yojana
10.	T4426	Ravichandran Venkatesh	Forest Fire Susceptibility Mapping in South Western Ghats, India: A Development of Composite Index through Fuzzy Triangular Membership
11.	V1354	Rajit Gupta	Using full waveform LIDAR remote sensing GEDI data in deciduous forest dynamics investigation
12.	V4057	Ritika Srinet	Light-use Efficiency Based Modelling of Gross Primary Productivity using Eddy Covariance and Earth Observation Data in Northwest Himalayan Foothills
13.	T4088	Saurabh Purohit	Estimation of Forest Evapotranspiration using surface energy balance-based METRIC model in Doon valley, India.

Session: TS-3B – Desertification, Land degradation and Droughts

Session Chair: Dr. Vinod Bothale Session Coordinator: Shri Manish Parmar Rapporteur: Shri Chirag Wadhwa			Time: 11:20-13:00 (19 Dec. 2020) Venue: Hall B
Sr. No.	Abstract ID	Presenter	Title
1.	M1119	Manish Parmar	Land Degradation/ Desertification Vulnerability Assessment using Geospatial Technique - A Case Study of Ahmadnagar District
2.	B2126	Hrishikesh Kumar	Estimation of compaction and methane emissions from Pirana landfill site, Ahmedabad using advanced remote sensing techniques
3.	L9148	Abhishek Danodia	Agricultural Drought Vulnerability Assessment using Geospatial Technologies at Block Level in Marathwada Region, Maharashtra
4.	H4943	Amritee Bora	Land Degradation Vulnerability Index: A case study of West Khasi Hills District, Meghalaya, India
5.	E7477	Binu Johns	Spatial Prediction and Mapping of Soil Salinity by Machine Learning Algorithms using Optical Data in Alluvial Soil
6.	U6875	Mayank Pawar	Desertification Vulnerability Assessment Using Modified Weighted Index Model for Combat Planning in Morena District, Madhya Pradesh, India
7.	J1411	Sunil Choudhary	Geospatial analysis of Desertification and Land Degradation status in Morena District of Madhya Pradesh
8.	L1730	Thara K Thankappan	Vegetation Health Index based Agricultural Drought Assessment and Yield Correlation Analysis
9.	O4133	Naveen Kumar	Applications of remote sensing in Delineation of Palaeochannels from Dadra and Nagar Haveli, Western India: implications to their possible tectonic origin

Session: TS-4B – Geospatial techniques and Urban applications

Session Chair: Dr. Sameer Saran Session Coordinator: Shri Manish Parmar Rapporteur: Shri Chirag Wadhwa			Time: 14:00-16:00 (19 Dec. 2020) Venue: Hall B
Sr. No.	Abstract ID	Presenter	Title
0.	Lead_TS4B	Sameer Saran	Recent trends in Geoinformatics
1.	K6315	Anjana Vyas	Geospatial Technology and Multi-level Education Framework and Learning Pedagogy
2.	H6282	S S Raja Shekhar	Design of a Spatial Counter Measure Analysis system for Nuclear Emergency Response in a WebGIS framework
3.	S7021	Rama Subramoniam S	Estimation of Brine Concentration in Salt Ponds using Geospatial Technology
4.	D5947	Supriya Sharma	Google Earth Engine based approach for turbidity mapping of inland water bodies using Sentinel-2 imagery
5.	Y6836	Mamatha S	Development of Satellite Data Information System using Open Source Software
6.	T6828	Anurag Kandya	Characterizing the Dynamics of Surface Urban Heat Islands of Ahmedabad city, India using Remote Sensing Data, Statistical Analysis and GIS
7.	K2599	Diksha Tiwari	Rising anthropogenic influence on Himalayan urban agglomerations: An evidence through land use change and population density analysis
8.	L8845	Abhisek Santra	Assessing the spatio-temporal growth of built-up features using a novel thermal index – A study of Kolkata and Haldia urban agglomerations
9.	I2442	Anjana Vyas	Deep Learning Algorithm for Urban Feature Extraction using SAR Data

Session: TS-1C – Water-1

Session Chair: Dr. Praveen Gupta Session Coordinator: Ms Nimisha Singh Rapporteur: Shri Rohit Pradhan			Time: 09.15-11.00 (18 Dec. 2020) Venue: Hall C
Sr. No.	Abstract ID	Presenter	Title
0.	Lead_TS1C	R P Singh	Recent developments in remote sensing of Hydrology
1.	B8179	Rohit Pradhan	Seasonal characterization of water vapor isotope ratio and precipitation across Congo Basin, Central Africa
2.	B7171	Tannu Priya	Urban Sprawl vis a vis Flood Risk in Surat City using Temporal Landsat Data and MODIS Flood Data Employing Google
3.	J6628	Azazkhan Pathan	Flood assessment and modeling approach using satellite imagery – A case of Navsari city Gujarat, India
4.	A9151	Triparna Sett	Impact of LULC Change on Hydrological Behavior of Forested Watershed
5.	D3065	Chintan Maniyar	Web-based Interactive Approach for Continuous Monitoring of Indian Inland and Estuarine Waterbodies for Harmful Algal Blooms
6.	W4953	Darshil Vekaria	Utilization of SAR and Google Earth Engine for Flood Assessment: Brahmaputra River, Assam
7.	H4412	Deepak Kumar	Flood Mapping using Sentinel-1 Imagery: A Case Study from Bihar

Session: TS-2C – Water-2

Session Chair: Dr. S K Srivastav Session Coordinator: Ms Nimisha Singh Rapporteur: Shri Rohit Pradhan			Time: 11.20-13.00 (18 Dec. 2020) Venue: Hall C
Sr. No.	Abstract ID	Presenter	Title
1.	Y8450	Nimisha Singh	Stage estimation of Himalayan Rivers using Passive Microwave Radiometer and Altimeter
2.	U2146	Shard Chander	Change in Water Colour of Lonar Lake observed using Multispectral Dataset
3.	X4094	Kishanlal Darji	Creating The High-resolution DEM for Flood Assessment Using UAV Techniques.
4.	A1952	Laveti N. V. Satish	Assessment of River-Aquifer Interactions in an Agriculturally Dominated Kosi River Basin, India
6.	I4009	P Thilagaraj	Integration of morphometric attributes and statistical approach in Prioritizing erosion risk Sub Watershed of Kodavanar watershed, Tamil Nadu.
7.	W2317	Agradeep Mohanta	Potential of Spatial Data in Identifying Water Resources Location for rural areas.
8.	X7025	Deepti B Upadhyaya	Application of satellite remote sensing for achieving sustainable development goals: Case studies across India
9.	I7090	Vaibhav Garg	Gauging the Ungauged through ISRO's Geo-portal
10.	Y4595	Yangchen Bhutia	Spatiotemporal dynamics of wetlands in Sikkim Himalaya, India

Session: TS-3C – Marine science and Coastal applications

Session Chair: Dr. Mini Raman Session Coordinator: Ms Nimisha Singh Rapporteur: Shri Rohit Pradhan			Time: 11:20-13:00 (19 Dec. 2020) Venue: Hall C
Sr. No.	Abstract ID	Presenter	Title
1.	O6092	Surisetty V V Arun Kumar	Satellite-derived bathymetry for improved nautical charts in shallow waters: a synergistic approach
2.	G5446	Syed Moosa Ali	Retrieval of bio-optical parameters in Indian coastal waters: A look-up-table based approach
3.	D7730	Syed Moosa Ali	GUI based software for estimating bio-optical parameters using ocean color satellite measurements
4.	Y1459	Preeti Rajput	Estimation of shallow water bathymetry using SAR dataset near Dhamra coast, Odisha
5.	L7631	Preeti Rajput	Assessment of decadal shoreline change along Indian coastal region at 1:25k scale using high-resolution satellite images of 2014-16 & 2004-06 time-frames
6.	R8746	Nagendra Jaiganesh S N	Remote sensing observations of ocean surface features and productivity in the southeast Arabian Sea

Session: TS-4C – Cryosphere

Session Chair: Dr. I M Bahuguna Session Coordinator: Ms Nimisha Singh Rapporteur: Shri Rohit Pradhan			Time: 14:00-16:00 (19 Dec. 2020) Venue: Hall C
Sr. No.	Abstract ID	Presenter	Title
1.	Q5006	Chandra Prakash Singh	Resolving Fine-Scale Features in Antarctica through Digital Photogrammetry: A First-cut Assessment
2.	U7473	Akriti Kulshrestha	Estimation of elevation change of mountain glaciers using ASTER DEMs and their field validation
3.	W5679	Naveen Tripathi	Glacier Surface Ice Velocity Changes in Zaskar and Suru Valley of Western Himalaya
4.	V1885	Dency Panicker	Investigating Cryospheric Parameters in Laptev and Beaufort Seas
5.	A8955	Kavita Mitkari	High Resolution Sea Ice Concentration Retrieval using Dual Polarized C-band SAR Data
6.	M9333	Mustafa Hameed Bhat	Satellite observed glacier shrinkage and velocity changes over Chenab basin, north western Himalaya
7.	O2456	Pranata Hazra	Glacial lake outburst flood (GLOF) simulation of Shako Cho, Sikkim Himalaya
8.	U7954	Parmod Kumar	Extraction of Glacial Lakes using LANDSAT 8 OLI data (2017) in Himachal Pradesh, INDIA
9.	X1298	Tariq Abdullah	Comparison of three methods of Glacier mass balances for the Kolahoi Glacier in the Kashmir Himalaya
10.	G4377	Sudhanshu Raghubanshi	Extraction of snow covers using object-based approach and NDSI
11.	O8090	Ummer Ameen	Understanding the Driving Factors of Glacier recession for Nun-Kun Group of Glaciers, Western Himalayas, J&K

Session: TS-1D – Weather-1

Session Chair: Dr. R M Gairola Session Coordinator: Dr Neerja Sharma Rapporteur: Shri Anup Mandal		Time: 09.15-11.00 (18 Dec. 2020) Venue: Hall D	
Sr. No.	Abstract ID	Presenter	Title
0.	Lead_TS1D	Raj Kumar	Recent developments in remote sensing of Oceanography and Meteorology
1.	E1671	Prashant Kumar	Assess the importance of SMAP retrieved wind speed on tropical cyclone forecasting
2.	I6329	Sambit Kumar Panda	Investigating the role of convective bursts and prevalent ocean parameters in aiding the rapid intensification of Tropical Cyclone Ockhi
3.	N4597	Neerja Sharma	Delineating Rainfall Distribution Asymmetry associated with Tropical Cyclones
4.	E5855	Abhisek Chakraborty	Derivation of ocean surface rain rates from Scatsat-1
5.	M3275	Jai Singla	Simulation and modeling of atmospheric effects based on forecasting information
6.	G3263	Anjaneyulu Akkimi	Generation of Synthetic Weather Radar Reflectivity Hyetograph to Nowcast High Intensity Rainfall in Urban Landscape
7.	Q9192	Gaurav Tripathi	Rapid monitoring of peak monsoon flood during July-August 2020 over North Bihar plains using SAR data via Google Earth Engine platform
8.	S4998	Danish Hussain	Validation of Thermal Discomfort Index Forecast over Ahmedabad
9.	W1119	Peda Nageswara Rao Pinnamaneni	Flood vulnerability mapping using geospatial technology for Belagavi district

Session: TS-2D – Atmosphere (Processes, Trace Gas, Aerosols)

Session Chair: Dr. Atul Verma Session Coordinator: Dr Neerja Sharma Rapporteur: Shri Anup Mandal		Time: 11.20-13.00 (18 Dec. 2020) Venue: Hall D	
Sr. No.	Abstract ID	Presenter	Title
1.	B5896	Sasmita Chaurasia	Potential of Normalised Difference Snow Index for Fog detection over Indo-Gangetic Plains
2.	H8144	Nandkishor Kumawat	Estimation of long-term drift for INSAT-3D & 3DR visible channel using Desert test site
3.	A4267	Rishi Kumar Gangwar	Physical Retrieval of Total Precipitable Water from Thermal Infrared Observations of INSAT-3D/3DR Imager over Ocean
4.	X6640	Shanthy Ramalingam	Decadal variability of air-sea CO ₂ flux in the southwest Bay of Bengal
5.	G9147	Radhika Chipade	Quantification of Adjacency Effects using a Radiative Transfer Model for CARTOSAT-2F Data
6.	N6846	Jai Kumar	Identification of mixing structures in the north Indian Ocean in the framework of Finite-Size Lyapunov Exponents
7.	F5613	Jishad M	Ocean fronts derived from Satellite SST and its interaction with oceanic eddies in the North Bay of Bengal
8.	W6304	Smitha Ratheesh	Assimilation of satellite derived sea surface salinity in ocean state forecasting system for Indian Ocean
9.	W2981	Swetal Gandhi	Assessing the spatiotemporal variability of air pollutant SO ₂ across Ahmedabad city, India using satellite data
10.	W8229	Mudasir Ahmad Bhat	Assessment of atmospheric aerosol optical properties and associated radiative forcing over a high-altitude site in Kashmir Himalaya

Session: TS-3D – Planetary and Astronomical remote sensing

Session Chair: Dr. Varun Sheel Session Coordinator: Dr Neerja Sharma Rapporteur: Shri Anup Mandal			Time: 11:20-13:00 (19 Dec. 2020) Venue: Hall D
Sr. No.	Abstract ID	Presenter	Title
0.	Lead_TS3D	Varun Sheel	Recent development in Planetary Sciences
1.	C2148	O P N Calla	Microwave Remote Sensing of Lunar Surface
2.	Q6303	Bhavesh Jaiswal	Polarization Signatures of Mars atmosphere
3.	W7421	Harish Seth	Preflight radiometric calibration of IIRS sensor onboard Chandrayaan-2 and estimation of calibration uncertainty
4.	P9808	Srikar Tadepalli	Planetary atmospheres in X- rays
5.	A9346	Kumaresan P R	Composition and Mineralogical mapping of Timocharis crater region using orbital data sets

Session: TS-4D – Hyperspectral applications

Session Chair: Dr. Prakash Chauhan Session Coordinator: Dr Neerja Sharma Rapporteur: Shri Anup Mandal			Time: 14:00-16:00 (19 Dec. 2020) Venue: Hall D
Sr. No.	Abstract ID	Presenter	Title
0.	Lead_TS4D	Prakash Chauhan	Role of hyperspectral remote sensing in Planetary science
1.	C2783	Babu K N	Radiometric calibration performance of AVIRIS-NG hyper-spectral sensor during during phase-2 campaign over desert site
2.	V1747	Touseef Ahmad	Sparse unmixing with spectral-spatial weighted regularization for the mineral abundance estimation in AVIRIS-NG image
3.	G9982	Samarpita Sarkar	Influence of Acid Mine Drainage in and around Amod Lignite Mines, Jhagadia using AVIRIS-NG hyperspectral data
4.	D5109	Laxmi Kant Sharma	AVIRIS-NG hyperspectral data for identification of some specific medicinal tree species
5.	I1129	Palak Choudhary	Comparison between Different Algorithms for Forest Species Classification using Hyperion Data in Parts of Yamunangar Distract, Haryana
6.	R2972	Pradyuman S. Rathore	Simultaneous retrieval of expressed abundance of three phases of water using AVIRIS-NG data
7.	I4301	Prachi Singh	Discrimination of Maize (Zea mays) crop stages using hyperspectral Remote Sensing
8.	A4282	Satya Veeramallu	Utilization of Airborne Hyperspectral Data for Delineation of Spectrally Resembling LULC Classes
9.	L5227	Ayushi Gupta	Selection of Sensitive Bands for Anthocyanin Estimation for <i>Pyracantha crenulata</i>
10.	T5662	Manish Pandey	Classification of Medicinally Important Himalayan Plant Species using Hyperspectral Remote Sensing and Machine-Learning Algorithms

Session: TS-1E – Advance Sensor systems

Session Chair: Mrs. Arti Sarkar		Time: 09.15-11.00 (18 Dec. 2020)	
Session Coordinator: Dr Arvind Sahay		Venue: Hall E	
Rapporteur: Ms Akriti Kulshrestha			
Sr. No.	Abstract ID	Presenter	Title
0.	Lead_TS1E	S S Sarkar	Advances in Electro Optics Sensors
1.	X9284	Ankush Kumar	Configuration study for a spaceborne Advanced Hyperspectral Imager (AdHYSI) for Agriculture, Mineralogy and Environmental applications
2.	W7811	K. Ajay Kumar	Implementation of target based imaging strategy for efficient in-orbit operations of Orbiter High Resolution Camera (OHRC) onboard Chandrayaan-2 mission
3.	S8583	Nitesh Thapa	Configuration study of Interferometric Fourier Transform Imaging Spectrometer (IFTIS) for Earth's Atmosphere and Environment monitoring
4.	X2698	Prathmesh Ghag	Quantitative analytical comparison of Michelson Interferometer based imaging spectrometer configurations for Environmental remote sensing
5.	H9015	Vedant Raj	In-House Development of SAGNAC based Imaging Spectrometer
6.	N1400	Vivek Sharma	Development of In-memory based Quick Data Product Generation Chain for IRS Sensors
7.	O6560	Pratibha Khemsara	Radiometric Calibration of High Resolution Multi-Spectral Sensor Using Artificial Radiometric Targets

Session: TS-2E – Optical and Microwave systems and applications

Session Chair: Dr. Arundhati Misra		Time: 11.20-13.00 (18 Dec. 2020)	
Session Coordinator: Dr Arvind Sahay		Venue: Hall E	
Rapporteur: Ms Akriti Kulshrestha			
Sr. No.	Abstract ID	Presenter	Title
1.	W3340	Anurag Pushpakar	A study of radiometric correction procedures for OCM-3
2.	J8820	Ashutosh Gupta	Radiometric calibration and correction techniques for Cartosat-3 panchromatic and multispectral sensor
3.	V5285	Alka Saini	On-board Scheme based SAR Calibration
4.	H6962	Ameya Kesarkar	Constellation of X-Band Small SARs for Earth Observation
5.	I5662	Ashish Kumar Jain	Soil Moisture Estimation and Palaeochannel Delineation in parts of Bikaner District, Rajasthan using ALOS PALSAR-2 and Sentinel-1A SAR data
6.	D6681	Bhaskar Dubey	An efficient GEO-image generation approach using SLC-product for SAR data evaluation and analysis
7.	N2871	Faseela V S	Radiative Transfer Model For Microwave Backscattering From Forest Canopies
8.	U3567	Harshita Tiwari	Exploring the Differential InSAR technique for landslide displacement studies in Alaknanda Valley Basin, Uttarakhand
9.	S1340	Vrutti Bhatt	Road Material Identification using Compact Polarimetry Airborne SAR data
10.	W2380	Yogesh Lingwal	Ionospheric Modeling using Multiple GNSS Reference Station

Session: TS-3E – Microwave applications

Session Chair: Dr. C S Jha Session Coordinator: Dr Arvind Sahay Rapporteur: Ms Akriti Kulshrestha			Time: 11.20-13.00 (19 Dec. 2020) Venue: Hall E
Sr. No.	Abstract ID	Presenter	Title
1.	X8159	Anup Das	Monitoring Forest Disturbance due to Shifting Cultivation in a part of NE India through L-band SAR time series
2.	U5801	Shweta Sharma	Design parameters of Corner reflectors for multi-frequency SAR data calibration
3.	N1726	Gaurav Seth	Biomass measurement using P-Band Airborne SAR for climate monitoring
4.	N8621	Saurabh Tripathi	Slice-wise Gamma Naught analysis for operational SCATSAT-1 data over homogeneous distributed calibration sites
5.	W2770	Aagam Shah	Identification of perched water table area and water logged areas in desert terrain using SAR and Optical datasets
6.	Q4014	Sandra Maria Cherian	SAR (Synthetic Aperture Radar) derived polarimetric parameters for the discrimination of mangrove types of Pichavaram, Tamil Nadu
7.	S3251	Yogendra Sahu	Configurable ScanSAR Mode of RISAT-1A for Earth Observation Applications
8.	G4818	Hemant Sahu	Grey Level Co-occurrence Matrix for Fruit Crop Classification Using Sentinel-1A SAR Data

Session: TS-4E – Machine Learning, Big data analytics

Session Chair: Dr. Manthira Moorthi Session Coordinator: Dr Arvind Sahay Rapporteur: Ms Akriti Kulshrestha			Time: 14:00-16:00 (19 Dec. 2020) Venue: Hall E
Sr. No.	Abstract ID	Presenter	Title
1.	B9746	Indranil Misra	SPRINT: Spectra Preserving Reflectance Image Fusion Technique for Landsat-8 OLI Panchromatic and Resourcesat-2A LISS-3 Multispectral Data
2.	M4219	Aarti Kochhar	Land Use/Land Cover Image Scene Classification Using Deep Learning
3.	M6912	Abhishek Adhikari	An Object-based approach for shadow region enhancements in ultra-high resolutions datasets
4.	C8209	Prakash P S	UAV Based Sensor Data For Efficient 3D Building Extraction Using Machine Learning
5.	Y6584	Vishal Singh	Deep learning-based building roof type classification for solar potential estimation
6.	Y2078	Mukul Priya	Am I Lost? A case of Wayfinding in standalone mode using Mobile Devices and porting of path computation algorithms
7.	W6827	Sanil Jain	Superpixel Based Non-Negative Matrix Factorization for Hyperspectral Unmixing
8.	M4577	Swati Jindal	Automatic Image Registration using FFT based Techniques
9.	F3795	Tushar Shukla	A Comparative Study on SVR, Model Stacking and Deep learning approaches for Blue Channel synthesis using L8-OLI & RS2A-L3 Data
10.	J5803	Venkanna Babu Guthula	Automatic Road Extraction from High-Resolution Remote Sensing Imagery using Fully Convolutional Networks
11.	U1220	Akash Anand	Estimation and Generation of Carbon Stock Product using Machine Learning Algorithms through Invocation of Cloud-Based Web Services
12.	ISRS-NS2020_F_0227	Harinder Mehta	DELL Technologies (Diamond Sponsor)

Day-1: December 18, 2020**Poster Session-1 (PS-1)****(Venue- Poster Hall)****Time: 09.30-16.30****Chair: Dr. Sandip R Oza****Co-Chair: Dr. Alpana Shukla****Committee Members: Dr. K N Babu, Dr. Sreejith, Shri Gaurav Seth****Session Coordinators: Shri Parimal Govani, Shri Chirag Wadhwa**

Sr. No.	Abstract ID	Presenter	Title	Theme
1.	I2510	Jatisankar Bandyopadhyay	A Quantitative Analysis and Spatial Dynamics of Inland Waterbody and Vegetation Cover: A Case Study of Super Cyclone Amphan on G Plot and L Block of Sundarban, India	Environment
2.	E2834	Minakshi Chanana	Spatial distribution of Azadirachta indica A. Jussin (Neem) in Amritsar City, Punjab, India: Dissemination of knowledge to defy corona virus disease (COVID-19).	Environment
3.	K1376	Sharvi Khawte	Assessment of the long-term impacts of mining on the environment in selected mines of Goa, India using Geospatial Techniques	Environment
4.	I9255	Vinaya Thakur	Investigating the use of Spectral Index to use for NDVI, MNDWI, NDMI, NDBI discrimination in Lavasa, Pune, Maharashtra	Environment
5.	X7238	Dhyani Vadgama	Variation in the Air Quality of Ahmedabad city due to COVID induced curfew	Impact of Lockdown on Environment
6.	X6262	Himani Maheshwari	Indirect impact of COVID 19 on air pollutants during the pre-lockdown, lockdown and post-lockdown phase in New Delhi, India	Impact of Lockdown on Environment
7.	B1964	Alok Raj	Monitoring of environmental health during COVID-19 pandemic over semi-arid (Aravalli range) ecosystem	Impact of Lockdown on Environment
8.	R4835	Rahul Kashyap	Examining Precipitation extremes during monsoon and their spatio-temporal and relief variability trends monsoon in various parts of the Himalayan region	Climate Change Indicators, Impact and Assessment
9.	A5841	Debanjan Sarkar	Identifying potential climatic refugia: Modeling the future climatically suitable regions in India for different species taxa	Climate Change Indicators, Impact and Assessment
10.	J6190	Malik Munazah Maheen	Understanding the Drivers of Land System Changes in the Lidder Valley, Kashmir	Climate Change Indicators, Impact and Assessment
11.	L5414	Aditya Vaghela	City level assessment of air pollutant NO ₂ using satellite data – A study of Ahmedabad city, India	Atmospheric Trace gases and Aerosols

12.	J9234	Kawaldeep Kaur	Development of Android Based Mobile Application for Action Taken Report on Crop Residue Burning	Agriculture
13.	K6226	Ashmitha Nihar	Machine learning based regional yield forecasting for sugarcane crop	Agriculture
14.	U4029	Bharati Prajapati	Impact of Canal Irrigation on Land use pattern in Tail End Talukas of Ahmedabad and Surendranagar Districts, Gujarat. using Remote Sensing and GIS Technology'	Agriculture
15.	I7352	Kola Jaya	Phenological studies of winter rabi crops using Synthetic Aperture Radar Data in Google Earth Engine Platform	Agriculture
16.	Q1680	Prabha Kumari	Mapping Horticultural Plantation in Tarn Taran District of Punjab using Remote Sensing and GIS Technique	Agriculture
17.	V4530	Pradeep Kumar	Area estimation of oil palm plantations using high resolution satellite data	Agriculture
18.	B9389	Shalini Saxena	Satellite Remote Sensing, Ground and Meteorological parameters-based Assessment of Rabi Season Drought in India	Agriculture
19.	Y1544	Shweta Pokhariyal	Abiotic stress quantification using crop simulation model, infrared thermometry and aerial photography in wheat crop in Tarai region of Uttarakhand	Agriculture
20.	I9243	Abhishek Chakraborty	Assessment of Carbon Storage of India's Terrestrial Ecosystems and Important Drivers: A Remote Sensing Approach	Forestry
21.	J3378	Aditya Dharaiya	Monitoring and assessment of forest ecosystem using geospatial technology: A case study of Jambughoda Wildlife Sanctuary, Gujarat, India	Forestry
22.	S5093	Gajendra Kumar	Long-term forest fire monitoring in different vegetation types of Madhya Pradesh, Central India	Forestry
23.	R8213	Joydeb Sardar	Forest Environment Dynamics and Biomass Estimation of Uttara Kannada Coastal Districts, Western Sahyadri Range using Synthetic Aperture Radar (SAR) Data	Forestry
24.	F8534	Shahbaz Ahmad	Estimating Net Ecosystem Exchange Using Light Use Efficiency (LUE) and Vegetation Photosynthesis and Respiration (VPRM) Model Over Dalma Wildlife Sanctuary, Jharkhand	Forestry
25.	P8823	Bijay Thakur	Study on altitudinal gradient and anthropogenic disturbance on structural attributes of plant communities at Lower Dibang Valley of Arunachal Pradesh	Forestry
26.	A3210	Mohd Aazim	Impact Of DEM's On Soil Erosion Modelling In The Vishav Watershed Using Rusle Model In GIS Environment	Desertification, Land degradation and Droughts
27.	C2963	Promila Bishnoi	A geo-spatial approach to assess dynamics of degraded lands in Bhiwani district	Desertification, Land degradation and Droughts
28.	G7059	Aurooj Shafi Beigh	Spatial distribution of Groundwater Quality in the Kashmir Valley using GIS	Water Resources

29.	E6535	Subhasish Sutradhar	Impact of Land use/land cover change on groundwater quality of Purba Bardhaman District using applied remote sensing and GIS technique	Water Resources
30.	X6214	Snigdha Dev Roy	Impact of Urbanization on Yamuna River Water Quality in Delhi Segment	Water Resources
31.	P3853	Sourab Singh	Prioritization of a Himalayan watershed based on Morphometric Analysis using Remote Sensing and GIS Techniques	Water Resources

Day-2: December 19, 2020**Poster Session-2 (PS-2)****(Venue- Poster Hall)****Time: 09.30-16.00**

Sr. No.	Abstract ID	Presenter	Title	Theme
1.	Y3691	Munizzah Salim	Glacier lake outburst flood in Bhutan Himalayan region using Geospatial techniques	Cryosphere
2.	B8531	Shubham Bhattacharjee	Glacier Thickness Estimation of Drang Drung Glacier, Ladakh; (India) using ice-flow velocity model through Geospatial Technique	Cryosphere
3.	G4684	Sivaranjani S	Ice Velocity of Rimo Glacier derived using different techniques	Cryosphere
4.	Y3441	Kangjam Devishri	Estimating velocities of Rathong & Zemu Glaciers in Sikkim using Differential SAR Interferometry	Cryosphere
5.	Q1221	Ubair Shah	Centennial geodetic mass balance of selected glaciers in Kashmir Himalayas	Cryosphere
6.	L2040	Pradeep Jeganathan	Estimation of shoreline change for Kollam to Colachel coast, Kerala, south India	Coastal Applications
7.	V5412	Md. Wasim	Potential fishing zone mapping along the eastern coast of, India using geospatial technique	Coastal Applications
8.	I2795	Vamsi Phani Krishna	Comparison of along-track resolution of SARAL/AltiKa and ENVISAT-RA2 satellite altimeters over continental margins	Geosciences
9.	T4250	Shubham Gupta	Impact cratering mechanism of Schiller crater formation on lunar surface using morphology and morphometry characteristics	Astronomical and Planetary Remote Sensing
10.	G8520	Megh Shah	Land Use Land Cover Change Modelling using Multi-layer Perceptron-Markov Chain Model: A Case Study of Ahmedabad City	Urban Applications
11.	X3839	Shubham Pawar	Interrelationship between Urban Density and Residential Location Choices: An Investigation through Agent Based Model	Urban Applications
12.	X9061	Vaishnavi Upadhyay	Investigating the Potential of Linear and Non-Linear Machine Learning Algorithms for Automatic Slum Detection.	Urban Applications
13.	L9997	Vijal Jain	Comparative assessment of various speckle filters for effective extraction of urban areas using L-band SAR data	Urban Applications

14.	N6117	Diya Das	Vertical structure of a Cloudburst System in the Himalayan region	Weather Forecasting and Disaster Management
15.	Y7775	Aditya Saraswat	Flood inundation modelling and analysis for Vadodara city using HEC-RAS model	Weather Forecasting and Disaster Management
16.	M9411	Alka Saini	Onboard Processing Validation for Scatterometer sensor	Microwave Applications
17.	O1966	Harshal Mittal	Land Water Segmentation for Sentinel -1 SAR Satellite Imagery using Vector-Based Approach	Microwave Applications
18.	B1809	Vanshika Ojha	Flood mapping using sentinel-1 in Patna district and adjoining area, in Bihar	Microwave Applications
19.	N4847	Apeksha M. Gopale	Comparative Analysis of filters for speckle reduction in SAR images	Microwave Applications
20.	L4555	Achala Shakya	Effect of Patch Size on 2-D Convolution Neural Network for Remote Sensing Image Classification	Machine Learning, Big Data Analytics, Data Mining and Advanced Algorithms
21.	T7107	Anju Biju	Assessing the Effectiveness of Analysis Ready Data and Machine Learning Algorithm in LULC Classification over Raw Sentinel-2 Data	Machine Learning, Big Data Analytics, Data Mining and Advanced Algorithms
22.	O1512	Ichchhit Baranwal	New Generation Ready to use Database Design for Satellite Data Quality Monitoring	Machine Learning, Big Data Analytics, Data Mining and Advanced Algorithms
23.	N3207	Chintan Maniyar	Effective Cyanobacterial Harmful Algal Blooms Monitoring using Open Social Media Platforms and Google Earth Engine	Geospatial Technology
24.	N9196	Harpinder Singh	Development of a Web GIS with routing and geocoding services.	Geospatial Technology
25.	W7122	Prafulla Kumar Panda	Change Detection Analysis using Geospatial Technology - A Case Study for Gajapati District, Odisha India	Geospatial Technology
26.	T5232	Sheetal Km	Distribution of Bryophytes in Gujarat, potential and advantages of mapping using satellite based remote sensing	Geospatial Technology
27.	C3860	K.M. Reddy	Sneak Peak into Satellite Based Monitoring of Watershed Development in Maharashtra	Geospatial Technology
28.	F3621	Surya P	Space based observation of environment monitoring and climate change impact in chennai district and agriculture, water resource management studies in Nagapattinam district, Tamilnadu	Geospatial Technology
29.	S6625	Nyenshu Seb Rengma	Spatial prediction and mapping of soil properties using geospatial data employing digital soil mapping techniques	Geospatial Technology

30.	L3610	Taranjot Singh	Development of Punjab Election Web GIS	E-Governance – Systems for Digital India
31.	R6508	Ashish Chaurasia	Use of Geospatial Technology in growth of LGEOM Pvt Ltd - A DIPP recognized startup incubated in PDPU IIC	Entrepreneurship development in the Field of Earth Observation
32.	W1036	Kandasamy Priyanka	Inter annual and seasonal study of satellite derived Sea Surface Salinity in the western Bay of Bengal	Marine Science