



**National Symposium on Advancements in Geospatial
Technology for Societal Benefits
December 05-07, 2018**

Programme



**Space Applications Centre, ISRO
Ahmedabad – 380 015**

National Symposium on Advancements in Geospatial Technology for Societal Benefits
December 05-07, 2018
Jointly organized by ISG & ISRS
Hosted by Space Applications Centre, ISRO, Ahmedabad

Programme

Day-1: December 05, 2018

Registration at Vikram Sarabhai Exhibition (0815- 0930 hrs), SAC Campus

December 5, 2018 0930 – 1130 hrs	Inaugural Session	Venue: Yash Pal Auditorium
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Invocation and lightening of Lamp		0930-0940
Welcome Remarks	Shri D.K. Das, Director, Space Applications Centre	0940-0945
Presidential Address	Shri Tapan Misra, President, ISG & ISRS, Senior Advisor, ISRO	0945-0950
Address by Guest of Honour	Lt. General Girish Kumar, VSM, Surveyor General, SOI	0950-1000
Award Ceremony, ISG		1000-1010
Award Ceremony, ISRS		1010-1020
Address by Chief Guest	Shri P.P. Kale, Former Director, VSSC & SAC	1020-1030
ISG-Millennium Lecture	Sustainable Development Goals: Role of Geomatics - Shri Kartikeya V. Sarabhai, Director, Centre for Environment Education (CEE), Ahmedabad	1030-1115
Release of Book “ पृथ्वी के प्रेक्षण से संबंधित कैमरों के निर्माण में उत्कृष्टता की दिशा में भारत की यात्रा “ Remarks by author, Prof. George Joseph		1115-1125
Vote of Thanks	Dr. C.P. Singh, Organising Secretary	1125-1130

High Tea: 1130 – 1200 hrs

December 5, 2018 1200 – 1300 hrs	Plenary Session - 1	Venue: Yash Pal Auditorium Chair: Dr. R.R. Navalgund
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1200 – 1230 hrs	Dr. P.G. Diwakar, Director, EDPO, ISRO HQ, Bengaluru
1230– 1300 hrs	Industry Presentations

Lunch: 1300 – 1400 hrs

TS – 1/1: Web GIS

December 5, 2018 1400 – 1530 hrs	Venue: Main Lecture Hall, Vikram Hall	Chair: Dr. P.L.N. Raju Co-Chair: Shri D.K. Patel
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ID	Authors	Title
219	R.N. Tripathi, A. Ramchandran, S.A. Hussain and G. Talukdar	A web portal for monitoring and evaluation of biodiversity conservation and public partnership initiatives for the river Ganga
166	Shweta Mishra, Biman Biswas and Markand P. Oza	Dynamic analysis of NDVI time-series in WebGIS environment to Improve crop management
220	Chandrika Mohapatra, Giribabu D. and Ch. Sudhakar Reddy	Applications of geospatial technology to evaluate world's largest social safety net
190	Rahul Nigam, Ujjwal K. Gupta, Amrender Kumar and Bimal K. Bhattacharya	Development of satellite derived value added agromet products for agro-advisories
164	Tapan Ghosh, Atin Majumder, Raj Setia, V. K. Verma and Brijendra Pateriya	GIS based land suitability analysis for crop diversification in central parts of Punjab
26	Prafulla Ku. Panda, M.L.Narasimham, I.V. Muralikrishna and Sangeeta Sahu	Disease control and combat mapping for tribal fortification using GIS –A case study for selected tribal blocks of Rayagada district, Odisha
68	Anasua Chakraborty, Alolika Basu, Kankana Chakraborty and Saurav Sengupta	Deployment of blood bank information system in Delhi an web mapping application
428	Shivani Shah, Ruchi Modi, Utkarsh and Amod Agarwal	Geospatial Technology for Weather and Ocean Information Services from MOSDAC
112	Ujjwal K. Gupta, Vidit Shah and Markand P. Oza	Forecasting of NDVI time series using statistical methods
256	Bindia, Kriti Khatri and K. Shahana	IOT based smart DES

TS – 1/2: Geosciences

December 5, 2018 1400 – 1530 hrs	Venue: Horse Shoe Conference Room, Vikram Hall	Chair: Dr. Sumer Chopra Co-Chair: Shri Arun Kumar Sharma
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ID	Authors	Title
210	Sujata Dhar	Estimating the intraplate movement of India along Narmada Son lineament
170	K.M. Sreejith, Ritesh Agrawal and A.S. Rajawat	InSAR constraints on the September 3, 2017, North Korean Nuclear test
131	Shravane Singh, Pranshu Pranjal and R.S. Chatterjee	Land subsidence in Mehsana region of Gujarat: detection by radar interferogram and GRACE
120	Hrishikesh Kumar, Samarpita Sarkar, A.K. Sharma and A.S. Rajawat	Mapping hydrothermal alteration in parts of Ambaji using imaging spectroscopy
129	Ritesh Agrawal, Dhayey Bhavsar, Ratheesh Ramakrishnan and A.S. Rajawat	Deformation study of Mahanadi delta region using InSAR technique
142	Rachna S. Kachhap, Amitesh Gupta, Rajarshi Bhattacharjee and Triparna Sett	Seismic risk zonation using geospatial tool: A case study over East and South district of Sikkim
158	R.R.Thakur and Sarvesh Palria	Drainage morphometry analysis of coastal tract from Mahanadi to Dhamra river, Odisha, India
138*	Samarpita Sarkar, Hrishikesh Kumar, Arun Sharma and A.S. Rajawat	Study of episodic reactivation of palaeochannels in parts of Barmer, Rajasthan using multi-sensor data
417*	Shraban Sarkar	ANN-based approach for landslide hazard assessment in Alaknanda river basin
418*	Priyonath Adhikary, Shashikant Sahoo, Pradeep K. Litoria and Brijendra Pateriya	Dynamics of land cover changes and its impact on groundwater in Central Punjab (India)

TS – 1/3: Agriculture

December 5, 2018 1400 – 1530 hrs	Venue: Seminar Room, Vikram Hall	Chair: Dr. K.R. Manjunath Co-Chair: Prof. S. Naresh Kumar
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ID	Authors	Title
137	Karsan Chaudhary, Saket Mehta and Bimal Kumar Bhattacharya	Space technology based solutions for claim verification under Income tax exemption
410	Arvind Kumar, Anil Sood and Brijendra Pateriya	Monitoring acreage and harvesting pattern of wheat crop in Punjab, India using geospatial technologies
92	Rojalin Tripathy, Bimal K. Bhattacharya and S. S. Ray	Remote sensing based semi-physical approach for spatial yield prediction of cotton
19	Avinash Kumar Ranjan, and Bikash Ranjan Parida	Paddy yield prediction using multi-temporal satellite data and AquaCrop model over Sahibganj district, Jharkhand (India)
113	Indrani Choudury, B.K. Bhattacharya, R. Eswar and M.Sekhar	An assessment of green and blue water use over Indian agroecosystem using Geo-Leo satellite observations
405	H. V. Parmar and N. K. Gontia	Evaporative fraction variability modelling over an irrigation canal command using remote sensing
227	Mona Parmar, Hitesh Solanki, and Manik H. Kalubarme	Wheat crop growth monitoring using multi-spectral vegetation indices of Bhal track, Gujarat state
143	Ayan Das, Mukesh Kumar, K. N. Chaudhari, C. P. Singh, Bimal K. Bhattacharya, Sujay Dutta, P. L. Bhimani, N. A. Patel, Rucha Dave, Syed Bilal and Suresh Chandra	Micro-scale forecasting of sugarcane production at mill command area using space technology – A Case Study in Gujarat, India
223	Shweta, Bimal K. Bhattacharya and Akhouri Pramod Krishna	An assessment of anthropogenic forcings on large-scale evapotranspiration using satellite remote sensing & GIS-A case study for Bihar
109	Sujay Dutta and R. S. Sodhi	Conjugation of AMUL and ISRO: Development of feed and fodder for dairy industries

Tea: 1530 – 1600 hrs

TS – 2/1: Navigation and Mobile Apps

December 5, 2018 1600 – 1730 hrs	Venue: Main Lecture Hall, Vikram Hall	Chair: Shri Nilesh Desai Co-Chair: Dr. Nitant Dube
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ID	Authors	Title
189	Ashish K. Shukla, Pooja C. Patel and Prarthna Shah	Extended Kalman filter based NavIC L5 differential positioning
35	Megha Maheshwari and S. Nirmala	Enhanced modelling of ionosphere error and its assessment for single frequency GNSS receivers in LEO orbit
146	Surisetty V.V. Arun Kumar, Rakesh Kumar Luhar, Rashmi Sharma and Raj Kumar	Design and development of low-cost GNSS based drifter for studying rip currents
21	S.K. Anand and Soumyendu Raha	Projection based processing of range observable for robust initial position estimation of GEO/IGSO navigation satellites
47	Jayrajsinh D. Jadeja and P.R. Patel.	Surveying and mapping of Gandhinagar city using IRNSS/NAVIC System
66	Arpit Agrawal	Universal geospatial data collection
411	Kawaldeep Kaur, Anil Sood, Yashmeet Kaur and Brijendra Pateriya	e-PEHaL-An android Based Application to Monitor Plantations
74*	V. Raghu, Abhrankash Kanungo and K. V. Ramana	GPS Based Vehicle Tracking and Monitoring System (VTMS) for mineral carrying vehicles in Andhra Pradesh, India

TS – 2/2: Planetary Sciences

December 5, 2018 1600 – 1730 hrs	Venue: Horse Shoe Conference Room, Vikram Hall	Chair: Dr. Prakash Chauhan Co-Chair: Dr. A.S. Arya
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ID	Authors	Title
157	Rishitosh K. Sinha and Dwijesh Ray	Role of recent water flow and debris flow activity in gullies: new evidence from two northern mid latitude craters on Mars
211	Harish Nandal, Vijayan S., Rishitosh K. Sinha and Nandita Kumari	Craters in the vicinity of Valles Marineris, Mars: Implication for extensional activities in the region
208	Nandita Kumari, Harish Nandal, Indhu Varathrajan, Ritu Anilkumar, Rishitosh K. Sinha and Vijayan S.	Study of Nernst crater in the lunar highlands: New insights
272	Garima Sodha, B. K. Bhadra, S. Srinivasa Rao and Uday Raj	Migration rates and morphology of barchan dunes at different latitudes on Mars
159	Abhishek Pindiwala, Dhiraj B. Shah, Ashwin Gujrati, Himanshu Trivedi and Mehul R. Pandya	Retrieval of Aerosol Optical Depth over Mars during dust storm events using THEMIS data
49	Indranil Misra, S. Manthira Moorthi and Debajyoti Dhar	Techniques Developed for Large Area Mars Image Mosaic using ISRO's Mars Color Camera (MCC) Data
63	Ashka Thaker, Shreekumari Patel and Paras Solanki	Observations of Schluter crater using high resolution data
429	Jai G Singla and Kirti Padia	3D surface visualization of planetary data
433	Ms. Suchit Purohit	Hypothesis validation of formation mechanism of Floor-fractured craters
196*	Rishitosh K. Sinha and Sivaprahasam Vijayan	Study of layered deposits in the East Melas Chasma, Mars using MCC, HiRISE, THEMIS and MOLA data

TS – 2/3: Environment

December 5, 2018 1600 – 1730 hrs	Venue: Seminar Room, Vikram Hall	Chair: Dr C M Kishtawal Co-Chair: Dr. R.M. Gairola
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ID	Authors	Title
174	Barun Raychaudhuri and Tithi Sen Chaudhuri	Interannual variation of atmospheric carbon dioxide concentration derived from Orbiting Carbon Observatory-2 data compared with its local and large-scale variations obtained from NASA Giovanni database
209	Abha Chhabra, Tejas Turakhia, Ankit Viramgami, Rajesh Iyer, Rekha Kashyap, Mehul Pandya and Bimal Bhattacharya	Spatial-temporal distribution, characterization and human health impacts of air pollutants in Ahmedabad city
24	Rajesh Bajpai and D. K. Upreti	Assessing air pollution and climate change by utilizing lichens
22	Rahul Tripathi, K.C. Moharana, A.D. Nayak, B. Dhal, M.D. Shahid, B. Mondal, S.D. Mohapatra, P. Bhattacharya, A.K. Shukla, H. Pathak and A.K. Nayak	Ecosystem services in different agroclimatic zones of eastern India affected by changes in land use and land cover at different time scales
40	M. Ayesha Malligai, Hireen P. Bhatt, Ajai and Junaid Mushtaq Lone	Identification of global sand & dust storm source regions and development of sand & dust storm alert system
171	Sunil Kumar, Swagata Ghosh and R.S. Hooda	Monitoring and modeling of land use and land cover changes and their impact on land surface temperature: A geospatial approach
182	Bindu Bhatt, Shashikant Sharma, Janak P. Joshi and Tushar Lohar	Quantifying spatio-temporal dynamics of land surface temperature and biophysical indices using RS and GIS: A study of Vishwamitri watershed, Gujarat
25*	Rajesh Bajpai and D. K. Upreti	Lichens on Indian monuments and their role in biodeterioration

222*	Jaishree Tailor and Kalpesh Lad	A geo-spatial study of vegetation and terrain indexes of Bardoli taluk for regional information enrichment
412*	Indrajit Paul, Kaptan Singh, D. C. Loshali and Brijendra Pateriya	Land use land cover change analysis of Ludhiana district, Punjab using remote sensing and GIS techniques

TS – 2/4: Poster Session-1

December 5, 2018 1600 – 1730 hrs	Venue: Yash Pal Auditorium First Floor	Co-ordinators: Naveen Tripathi & Saurabh Tripathi
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ID	Authors	Title
11	Kartik Thakor and Sujay Dutta	Spatial variability mapping of macronutrients using geo-informatics technology across Patan and Vadodara District, Gujarat
14	Rakesh Mandal, Vijay Kumar, Shreekanth Kesari and Pradeep Das	Application of Geographic Information System (GIS) as a decision making tool to expedite Kala-azar elimination in highly endemic regions of Bihar, India
32	Bisam Yousuf, Aparna Shukla, M.K. Arora, Ankit Bindal and A.S. Jasrotia	Effect of zoom factor and surface heterogeneity on sub-pixel mapping of glacier facies
79	Renu Poonia	Close range photogrammetry: An innovative technique for morphometric study of cities
206	Ram Kumar Singh, Vinay Shankar Prasad Sinha, Piyush Dubey and Himani Singh	Time-series bigdata naïve Bayes classification for agriculture, forest & other (AFOLU) landuse
243	A.Ramachandran, P. Das, V. Bodanandan and A. Babu	Remote sensing and GIS based site selection for water harvesting structures in Bilaspur forest circle
267	Reshma Jeswani, S.K. Srivastav and Prasun Kumar Gupta	Evaluation of the consistency of DMSP-OLS and SNPP-VIIRS Night-time light datasets
282	Shubham Sharma and Alpana Shukla	Python Development for Geospatial Applications
264	S.K. Khuba, Kirti Agarwal and K. Ratnakara	An innovative approach to interference geolocation using rainfall data
306	Beena Nathani and Dipika Nijampurkar	Delimitation of priority zones for biodiversity conservation in Rajpipla forests using RS-GIS approach
288	Nikhil Lele, Shovik Deb, Soumitra Das and M.K. Kripa	Forest biophysical parameter estimation in Buxa tiger reserve, West Bengal
262	Beena Nathani and Dipika Nijampurkar	Assessment of classification accuracies for identifying priority forest sites by using Rs-GIS approach: A baseline for biodiversity conservation
93	Shreekumari Patel, Prabhjot Kaur, A.S. Arya and P.M. Solanki	Maiden detection of spinel at Maunder crater of far side using Chandrayaan-1 Moon Mineralogy Mapper
81	Nupur Adarsh, Mayank Bishwari and Mamta Chauhan	Mineralogical study of Mare Humorum using hyperspectral data from Chandrayaan-1 Mission
178	Jasia Bashir, Shakil Ahmad Romshoo and Irfan Rashid	Multi-model comparative assessment of meteorological parameters from GCM's over Jammu and Kashmir State
103	Jit Mukherjee, Jayanta Mukhopadhyay and Debashish Chakravarty	A study of seasonal separability of coal seam fires from other high temperature locations using clay mineral ratio in Landsat 8 OLI/TIRS

Tea: 1730 – 1800 hrs

December 5, 2018 1800 – 2000 hrs		Venue: Yash Pal Auditorium
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1800-1845 hrs	ISG Silver Jubilee Function
1845 -1915 hrs	ISG-AGM
1915-2000 hrs	Cultural Programme

Dinner: 2000 hrs onwards

Day-2: December 6, 2018

TS – 3/1: Geospatial Technology

December 6, 2018 0930 – 1100 hrs	Venue: Main Lecture Hall, Vikram Hall	Chair: Dr. Vinod Bothale Co-Chair: Dr. Markand Oza
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ID	Authors	Title
192	Nageswara Rao and K.V. Ramana	GIS based Decision Support System for greening of hillocks, Bukkapatnam Mandal, Anantpur district, A.P.
34	P. T. Das, R. Samiam, I.B. Saiborne and P. L. N. Raju	Utilisation of geospatial tools for characterization and expansion of Khasi mandarin orange in Meghalaya
188	Ain us Saba, Muzamil Amin and Shakil A. Romshoo	Opportunity mapping to inform development planning at village level using geospatial techniques
258	Pratibha Peshwa and S. Palria	Spatial Decision Support System for infrastructure management: A case study of electrical utility structure of Jodhpur City
18	Subham Kharel, P. Shivananda, K. S. Ramesh, K. Naga Jothi and K. Ganesh Raj	Use of transportation network analysis for bus stop relocation, depiction of service area and bus route details
421	Vandita Srivastava, Pramod Kumar and Prakash Chauhan	Very high resolution optical satellite images for property tax assessment: Issues & Challenges
41	Dhruvi Bharwad	Addressing sustainable development goals through space technology
62	R. Nandakumar	Novel geospatial applications for small land parcels
97*	Rajendra Pawar, Sharad Bhagat and Makarand Kulkarni	Use of geospatial technology for efficient water resources management in the state of Maharashtra
420*	Ashwani Kumar	Geo-spatial technology application for climate change adaptation plans at micro level

TS – 3/2: Soil/Land Degradation

December 6, 2018 0930 – 1100 hrs	Venue: Horse Shoe Conference Room, Vikram Hall	Chair: Dr. A.S. Rajawat Co-Chair: Dr. Bijoy Handique
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ID	Authors	Title
118	Sagar Taneja, Raj Setia, Rahul Nigam, Baban K. Bansod, Bimal K. Bhattacharya and Brijendra Pateriya	Prediction of soil properties using visible-near infrared imaging spectroscopy
152	Anudeep Sure and Onkar Dikshit	Time series analysis of remotely sensed surface soil moisture for wheat and rice crops in Central Plain, India

155	Harsh Agrawal, Abhishek Dubey, Nikita Tiwari, Dharmendra Kumar Pandey, Deepak Putrevu, Arundhati Misra and Raj Kumar	Performance evaluation of a newly in-house developed in-situ soil moisture sensor with standard industrial sensors and gravimetric sampling
89	Ashwin Gujarati, Vibhuti Bhushan Jha, Amit kumar Dubey and R. P. Singh	Analysis of drought indices using Google Earth Engine
58	Sk Mohinuddin, Prabir Kumar Das, S. Bandyopadaya, R.N.K. Sharma and Uday Raj	Trends and behavior of meteorological and soil moisture- drought over four homogeneous meteorological regions of India using time-series (1980-2015) MERRA-2 data
20	Amritee Bora, B.S Mipun, K. L. N. Sastry and Manish Parmar	Land degradation / desertification vulnerability assessment in north eastern region of India: a case study on Golaghat District, Assam
75	Parag S. Shinde, Ritesh Agrawal, Arun Sharma and Vasant Villuri	Desertification Vulnerability Index (DVI): Case study of Jalore district, Rajasthan
56	A.L. Haldar, Deepali Mishra and Swati Pandey	Sustainable development of the village through generation of suitable action plans for soil and water resources using high resolution Komsat data – A case study of smart village ‘Saidpur Sakari’, Kannauj District, Uttar Pradesh
135	Krishna Kumar Soni, S.P.Vyas, Shital.H.Shukla and Ajai	Mapping and monitoring of aeolian process in Jodhpur district, Rajasthan using multi - temporal satellite data
111	Neha Sharma and Sarvesh Palria	Assessment of drought extent using vegetation indices and rainfall data: A case study of Rajasthan, India
431	T. Radhika, M. Suresh Kumar, R.N. Anjani and C. V. Rao	Vegetation Health Index Products from Resourcesat-AWiFS Data

TS – 3/3: Machine Learning

December 6, 2018 0930 – 1100 hrs	Venue: Seminar Room, Vikram Hall	Chair: Prof. Suman Mitra Co-Chair: Shri T.P. Srinivasan
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ID	Authors	Title
259	Anagha, P., Jalluri Chaitanya, Shubham Agarwal and Rama Rao Nidamanuri	Manifold learning with wavelet transform for hyperspectral drone image classification
299	Neeraj Varma and Gnanappazham L.	Classification of multispectral imagery using deep learning & machine learning based algorithms –A case study of mangrove forest in Maharashtra
121	R. B. Lyngdoh, Anand S.S., T. Ahmad, P. K. Gupta and Arundhati Misra	Spatial-spectral classification of hyperspectral data using deep convolutional neural network
100	Shubham Agarwal, Jalluri Chaitanya, Anagha P. and Rama Rao Nidamanuri	SAR image classification using convolutional sparse autoencoders and CNN
186	Kinjal Prajapati, Payal Prajapati, Madhuri Bhavsar and Alka Mahajan	An improved polarimetric decomposition technique for ocean surface target detection
77	Sudhanshu Raghubanshi, Ritesh Agrawal, A. K. Sharma and A. S. Rajawat	Extraction of water body and cloud-hill shadow, cloud detection using object-based classification
95	Kishore Kowtham and Srinivasa Raju K.	A cloud based automated flood mapping using GOOGLE EARTH Engine
432	Nilkamal P. More	Performance Efficient Classification of Geospatial Big Data using Geospark

Tea: 1100 – 1130 hrs

December 6, 2018 1130 – 1300 hrs	Plenary Session - 2	Venue: Yash Pal Auditorium Chair: Dr. Y.V.N. Krishna Murthy
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1130-1200 hrs	Dr. Santanu Chowdhury, Director, NRSC, Hyderabad
1200 – 1230 hrs	Shri Nilesh M. Desai, Deputy Director, SSAA, SAC, Ahmedabad
1230 – 1300 hrs	Industry Presentations

Lunch: 1300 – 1400 hrs

TS – 4/1: Forestry

December 6, 2018 1400 – 1530 hrs	Venue: Main Lecture Hall, Vikram Hall	Chair: Dr. Subrat Sharma Co-Chair: Dr. Alpna Shukla
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ID	Authors	Title
33	Subrat Sharma and Priyanka Sah	Himalayan timberline is product of landforms and geological processes
277	Pooja Rathore, Arijit Roy and Harish Karnatak	Impressions of projected climate and land use land cover changes on high altitude species – Abies pindrow in western Himalaya
402	Jakesh Mohapatra, C. P. Singh, B. K. Bhattacharya and Himanshu A. Pandya	Assessing long-term vegetation greenness in high elevation landscape of Hindu-Kush Himalaya
60	Vandna Devi, M.H. Fulekar, Bhawana Pathak and Manik H. Kalubarme	Monitoring impacts of climate change on forest cover and snow-line in GHNP area using geo-informatics technology
253	R. Bordoloi, B. Das, G. Yam, S. Deka and O.P. Tripathi	Carbon stock assessment in different landuse sectors of Ziro valley, Arunachal Pradesh using geospatial approach
284	Nikhil Lele, Amit Kumar, A. C. Pandey, Kripa M.K. and Satendra Kumar	Leaf Area Index modelling for studying forest phenology in Dalma sanctuary, Jharkhand
165	Sudip Manna and Barun Raychaudhuri	Stress mapping of Sundarban mangroves with Sentinel-2 images using Discriminant Normalised Vegetation Index (DNVI) and Fuzzy classification technique
419	K.C. Patel, N.K. Gontia, P.K. Gupta and K.M. Gojya	Morphological parameters and their implications in forest watershed
110*	Arunima Singh, Shashi Kumar and Hitendra Padalia	Backscattering and coherence analysis using space borne C-band data for forest characterization
226*	Yathish H., Athira K.V., Pruthviraj U. and Amba Shetty	A comparative analysis of forest risk zone mapping methods: A case study
254*	B. Das, S. Baruah, R. Bordoloi, L.T. Thungon, A. Paul and O.P. Tripathi	Assessment of landuse change implication on carbon stock of subtropical forests of East Khasi hills, Meghalaya
416*	S L Borana, S K Yadav and S K Parihar	Measurement and Analysis of Spectral Signatures of Arid Vegetation from Jodhpur Area

TS – 4/2: Coastal Applications

December 6, 2018 1400 – 1530 hrs	Venue: Horse Shoe Conference Room, Vikram Hall	Chair: Prof. K.V.S.R. Prasad Co-Chair : Dr. Atul K. Varma
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ID	Authors	Title
78	Surisetty, V.V. Arun Kumar, Avinash N. Parde, Jagdish and Raj Kumar	Offshore wind farm site suitability and assessment for Tamilnadu coast using RISAT-1 SAR and synergistic scatterometer data
217	Ratheesh R., Remya P. G, Ritesh Agrawal, A. K Sharma, K.V.S Prasad, Balakrishnan Nair and A.S. Rajawat	A numerical modelling approach for beach erosion forecast during monsoon season

230	M. V. Ramana Murty, Abhrankansh Kanungo, R. Kannan and K. V. Ramana	Morphodynamics of spit along Durgarajpatnam estuary, Andhra Pradesh, India
147	Sridevi T., Surisetty V. V. Arun Kumar and Raj Kumar	Seasonal variability of rip current probability along a wave-dominated coast using Hi-Res Satellites and wave data
234	Ratheesh R., Muraleedharan K. R, Preeti Rajput, A.K. Sharma and A.S. Rajawat	Satellite Observation of Mudbank and its Spatio-temporal Dynamics along Kerala Coast
273	Preeti Rajput, Ratheesh Ramakrishnan, Arun Sharma and A. S. Rajawat	Thermal plume dynamics along the Chennai coast: a study using Landsat-8 TIRS data and numerical simulations
406	Nithu Raj and B. Gurugnanam	A study on impacts of wind movement upon shoreline changes along the south – east coast of Thiruvallur, Tamil Nadu, using geospatial technology

TS – 4/3: Hyperspectral Applications

December 6, 2018 1400 – 1530 hrs	Venue: Seminar Room, Vikram Hall	Chair: Shri K.S. Parikh Co-Chair: Dr. Praveen Gupta
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ID	Authors	Title
275	Syed Moosa Ali, Anurag Gupta, Arvind Sahay, Gunjan Motwani, Aswathy Vijaya Krishna and Mini Raman	Inversion of Bio-optical properties using hyperspectral data in optically complex waters of Chilika lake
285	Jalluri Chaitanya, Anagha P., Shubham Agarwal, Rama Rao Nidamanuri	Knowledge based hyperspectral image classification using object oriented spectral library with CNN
123	T. Ahmad, R. B. Lyngdoh, P. K. Gupta and Arundhati Misra	Spectral unmixing of hyperspectral data in an agriculture system
194	Anirban Mukhopadhyay, Jyoti Prakash Hati, Nilima Rani Chaube, Arundhati Misra and Sugata Hazra	Discrimination of mangrove and non-mangrove vegetation using spaceborne AVIRIS-NG hyperspectral data
128	Athira K., Jaishanker R., Sooraj N.P, Sajeev C.R., Saroj Kumar V., Vishnu. M, Subin. J.M and Lijimol D.	Hyperspectral studies of flowers
281	Vishal N. Pathak, Ashwin Gujarati, Mehul R. Pandya and Himanshu J. Trivedi	A study on retrieval of surface reflectance from hyperspectral data using artificial neural network
298	Swati Priya and Ranendu Ghosh	Retrieval of target features using spectral curve simplification algorithm for airborne hyperspectral data
414	Alpana Shukla, Rajsi Kot, Rahul Nigam and Bimal Bhattacharya	Estimation of chlorophyll content of some crop plants using airborne hyperspectral remote sensing and ground data: a case study of Maddur, Karnataka
76*	Sandip Banerjee and Palanisamy Shanmugam	Airborne hyperspectral remote sensing of inland water
204*	Dhwanilnath Gharekhan and Anjana Vyas	Built up construction material identification and classification from hyperspectral imagery

Tea: 1530 – 1600 hrs

TS – 5/1: Urban Applications

December 6, 2018 1600 – 1730 hrs	Venue: Main Lecture Hall, Vikram Hall	Chair: Prof. Anjana Vyas Co-Chair: Dr Sameer Saran
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ID	Authors	Title
44	Prakash, P.S. and Bharath, H.A.	Building rooftop extraction and estimation of solar energy capabilities using machine Learning
180	Kriti Rastogi, Prathiba A.P. and Gaurav V. Jain	3D Volumetric change analysis in Urban Areas

216	Vidya Kumari, Amitesh Gupta, Rajarshi Bhattacharjee and Kiran Choudhary	Simulation of urban growth using SLEUTH model: A case study on Ranchi city
154	Abha Chhabra, Jay Mehta, Anurag Kandya and Mehul Pandya	Detecting the growing urban heat islands of Ahmedabad city using satellite data and GIS
290	V. Saini and R. K. Tiwari	Remote sensing based time-series analysis for monitoring urban sprawl: A case study of Chandigarh capital region
55	Saleem Ahmad Yattoo, Paulami Sahu and Manik H. Kalubarme	Urban sprawl monitoring using multi-temporal built-up indices: A case study of Ahmedabad City
30	M. S. Saran	Forecasting urban growth for Chalakudy City using geoinformatics and statistical model
124*	Monika Sharma, Gaurav V. Jain and S.N. Mohapatra	Analysis of causative factors of urban growth in Gwalior city using multi-date remote sensing data
84*	Ishaan Dimri, Anurag Kandya and Jay Mehta	Spatial and temporal variations of urban heat islands of Hyderabad city using high resolution Landsat 8 satellite data
407*	Pratima Singh	Building vulnerability assessment in urban area
430*	Jai G Singla, Kirti Padia, Debajyoti Dhar	Cost effective approach for development of Virtual 3D city models

TS – 5/2: Marine Sciences

December 6, 2018 1600 – 1730 hrs	Venue: Horse Shoe Conference Room, Vikram Hall	Chair: Dr. Mohammad Hata Co-Chair: Dr. Mini Raman
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ID	Authors	Title
224	Arvind Sahay and Mini Raman	Algal blooms detection and associated phytoplankton absorption coefficient in Arabian Sea using insitu and satellite data
150	R. Shanthi, D. Poornima, M. Naveen, T. Thangaradjou, A. Saravanakumar, S.B. Choudhry, K.H. Rao and V.K. Dadhwal	Development and validation of partial pressure of carbon dioxide algorithms in the southwest Bay of Bengal
172	K.M. Sreejith, P. Unnikrishnan and M. Radhakrishna	Isostasy and crustal structure of the Chagos-Laccadive Ridge: Geodynamic implications
151	D. Poornima, R. Shanthi, R. Ranith, A. Saravanakumar and T. Thangaradjou	Computational methods for long term monitoring of new production and f-ratio variability in Bay of Bengal
125	D. Ganguly and M. Raman	Cyclone Ockhi induced ekman pumping and associated change in primary productivity in Arabian Sea using Scatsat-1 wind fields
201	Priyanka Kandasamy, Saravanakumar Ayyappan, Ranjith Kumar Sarangi, Deepraj Allimuthu, Shanthi Ramalingam and Poornima Durairaj	Influence of sea surface temperature and chlorophyll on the distribution of particulate organic carbon in the southwest Bay of Bengal
229	Ravi Kamal Choudhary, Tushar Shukla, Sampa Roy and Debajyoti Dhar	Change detection and trend analysis for Oceansat-2 Ocean Color Monitor (OCM-2) time series data
87	Y. Umamaheswara Rao, P.V. Nagamani, Nikhil Baranwal, T.D.V. Prasada Rao and S.B. Choudury	Chlorophyll fluorescence images for monitoring Diatom bloom in the coastal waters at Kakinada
102*	Anima Tirkey, Aswathy Vijaya Krishna, Arvind Sahay, Arvind Singh, Mini Raman and Hitesh Solanki	Bio-optical characteristics of Trichodesmium bloom in the Eastern Arabian sea: Ship and satellite studies
99*	Aswathy Vijaya Krishna, Anima Tirkey, Mini Raman, Arvind Sahay and Arvind Singh	Phytoplankton pigment composition and community structure in the Eastern Arabian sea investigated using in situ data – an aid for remote sensing of phytoplankton functional groups
422*	R.K. Sarangi, K. Priyanka, D. Poornima and A. Saravana Kumar	Studies on new production using in situ based model and satellite datasets over the Bay of Bengal and Arabian Sea

TS – 5/3: Microwave Applications

December 6, 2018 1600 – 1730 hrs	Venue: Seminar Room, Vikram Hall	Chair: Shri Rajeev Jyoti Co-Chair: Shri Deepak Putrevu
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ID	Authors	Title
94	Shubham Awasthi and Kamal Jain	Urban land subsidence retrieval using PsInSAR based remote sensing technique
181	Shashaank M. Aswatha, Jeffrey Jose, Rajeswari Mahapatra, Jayanta Mukhopadhyay, Prabir K. Biswas, Subhas Aikat and Arundhati Misra	Unsupervised detection of forest regions and clustering of their possible categories using multi-spectral and polarimetric SAR images
70	Pavan Kumar Sharma, M. N. S. Ramya, Thota Sivasankar and G. D. Bairagi	Land cover mapping using multi-temporal dual-polarized Sentinel-1 SAR data: A case study in Ashoknagar district, Madhya Pradesh
193	Punithraj G., Pruthviraj Umesh and Amba Shetty	Assessment of spatial variation of soil moisture during maize growth cycle using SAR observations
130	Ritesh Agrawal	Generation and validation of Digital Elevation Model using RISAT-1 SAR interferometry
134	Shaikh M. A., Sayyad S. B., Anpat S. M., Sonawane D. K. and Khirade P. W.	Snow cover estimation of microwave SIR-C SAR dataset and its implications on statistical parameters
424	Esha Shah, Jayaprasad P., M.E. James, Deepak Putrevu and Arundhati Misra	Change detection over selected hotspots of Antarctica using RISAT-1 SAR data
425*	Rajkumar Kamaljit Singh, Somas Urikhinbam, Khoisnam Nanaoba Singh, Mamata Maisnam, Jayaprasad P. and Saroj Maity	Discrimination of Arctic Multi-year ice from first-year ice using SCATSAT-1 data
245*	Ankita Mandowara, Madhuri Bhavsar, Zunnun Narmawala, Swati Jain and Vivek Prasad	Land cover classification using L-band SAR data
423*	T. Chakraborty, D.K. Pandey, Jayaprasad P., Deepak Putrevu and Arundhati Misra	Application of ground penetrating radar for mapping of subsurface utilities: A case study of road collapse

TS – 5/4: Poster Session-2

December 6, 2018 1600 – 1730 hrs	Venue: Yash Pal Auditorium First Floor	Co-ordinators: Naveen Tripathi & Saurabh Tripathi
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163	Shreya Chauhan, Anurag Kandya and Abha Chhabra	Detecting signals of climate change through time-series thermal comfort analysis: A case study of Vadodara City, Gujarat
202	Sayan Datta Majumder, Sourav Samanta, Anirban Mukhopadhyay and Sugata Hazara	Mapping of coral habitat in Neil Island of Andaman using SENTINEL images
116	R. Premkumar, S. Visweswaran and R. Venkatachalapathy	Estimation of optically active substance from in-situ data in the Hooghly river, Kolkata and satellite data product validation using Sentinel-2 data
82	Rimjhim Bhatnagar Singh, Mini Raman and Prakash Chauhan	Tidal effects on Bio-optical variability in Gulf of Khambhat using Ocean Colour Monitor on-board Oceansat-2
242	Darshit B. Savani, R.D. Shah, I.M. Bahuguna and B.P. Rathore	Remotely observed of advanced and retreating of glaciers in Zaskar valley, Bhaga river, Miyar valley, Parbati river, Chandra basin
184	Tariq Abdullah, Shakil A. Romshoo and Irfan Rashid	Future changes in glacier mass and area under changing climate in the Kashmir Himalaya, India
140	Purvee Joshi, Ujjwal Kumar Gupta and Sandip R. Oza	Sea ice thickness distribution from altika: a case study of the indian ocean sector in the antarctic

117	Maya Raghunath Suryawanshi, Rajendra Singh, Partha Sarathi Nandy, P. Jayaprasad, D. Ram Rajak and Sandip R. Oza	Antarctica snow and ice features signature from ground penetrating radar and satellite data
107	Maya Raghunath Suryawanshi, Sandip R. Oza, I.M. Bahuguna and A.S. Rajawat	Grounding zone and ice rise in Antarctica:- A case study using SARAL/AltiKa repeat pass radar altimetry
91	Dharambhai Shah and Tanish Zaveri	Hyperspectral subspace identification using Eigen values
37	Pooja Shah, Parul R. Patel and Hemang Dalwadi	Extraction methods for SAR imagery: a review for road features
427	A. L. Haldar, Swati Pandey and Deepali Mishra	Analysis of ground water quality surrounding area of Hindan river- a case study of Saharanpur district, Uttar pradesh using geospatial techniques
434	Usha Joshi and G. Sandhya Kiran	Impact of grassland degradation on carbon dynamics: A case study of Banni
435	Ashwini Mudaliar and G. Sandhya Kiran	Mapping of deforestation in Shoolpaneshwar wildlife sanctuary using multi-temporal radar satellite data
436	Alpana Revdandekar and G. Sandhya Kiran	Extracting foliar traits using AWiFS data
437	Shrey A. Pandya and G. Sandhya Kiran	Landscape metrics for evaluating diversity in Fragstats using spatial data
438	Abhisha Joshi and G. Sandhya Kiran	Comparison of different classification Methods using LISS IV dataset: A case study of Dahod

Tea: 1730 – 1800 hrs

December 6, 2018 1800 – 1930 hrs	Venue: Yash Pal Auditorium
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1800-1900 hrs	ISRS - Vikram Sarabhai Memorial Lecture, “Observing the Cosmos: Achievements and Aspirations of the Indian Space Programme”, by Dr. Dipankar Bhattacharya, Distinguished Professor, IUCAA, Pune
1900 -1930 hrs	ISRS-AGM

Dinner: 1930 hrs onwards

Day 3: December 7, 2018

TS – 6/1: Advancements in Data Processing

December 7, 2018 0930 – 1130 hrs	Venue: Main Lecture Hall, Vikram Hall	Chair: Dr. B. Kartikeyan Co-Chair: Shri M. V. Ramanujam
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ID	Authors	Title
15	Indranil Misra, Vivek Sharma, S. Manthira Moorthi and Debajyoti Dhar	An approach for generation of multi temporal co-registered optical remote sensing images from Resourcesat-2/2A sensors
228	Tushar Shukla, Sampa Roy, Nitesh Kaushik and Debajyoti Dhar	Development of Oceansat-2 OCM data cube over Indian subcontinent

401	Sumandeep Sandhu, Kshama Gupta, Shweta Khatriker and Aniruddha Debnath	Evaluation of Cartosat-2E merged product for AMRUT mapping
136	Mehul R. Pandya, Dhiraj B. Shah and Himanshu J. Trivedi	Development of a modified split-window algorithm for retrieving land surface temperature over India using the data from Imager sensor onboard INSAT-3D and 3DR
279	Maneesha Gupta, Anuja Sharma and B. Kartikeyan	Evaluation and monitoring the data quality of SCATSAT-1
104	S.K.P. Kushwaha, Hina Pande and Raghvendra S.	Concrete volume loss calculation using Terrestrial Laser Scanner (TLS)
148	Shikhar Dayal, Namit Mittal, Bharat Lohani and R.K. Mishra	Simulating airborne LiDAR data using advanced computing techniques: Limulator 4.0
114	Medha Alurkar, Sunanda Trivedi, Kannan Iyer and T. P. Srinivasan	High resolution DEM generation using airborne TMC data
69	Nandita Mukherjee, Dhanasree Raut, Anasua Chakraborty and Alolika Basu	Estimation of building height of San Francisco city using different interpolation techniques on Lidar image
141	Rajarshi Bhattacharjee, Subrata Nandy and Triparna Sett	Tree parameters retrieval and volume estimation using TLS data
108	Abhrankash Kanungo, Ch. Tata Babu , V. Raghu and K. V. Ramana	Topographic survey of open – pit mine using rotary-wing Unmanned Aerial Vehicle
238	S.K.P.Kushwaha, Yogender and Ragavendra S.	Optimisation of total number of scanning stations for Terrestrial Laser Scanner (TLS) Survey
*65	Indranil Misra, Yatharath Bhateja, Neha Gaur and Vivek Sharma	Spatial enhancement of SWIR band from Resourcesat-2A by preserving spectral details for accurate mapping of water bodies
*205	Krushali Shah, Bimal K. Bhattacharya and Prashant Kumar	Solar power nowcasting using diurnal observations from Indian geostationary meteorological satellite – A Case study over Ahmedabad
*177	Ch. Tata Babu, Abhrankash Kanungo, G. Prasada Rao and K.V. Ramana	Inventory of ridge - valley watershed treatment using Unmanned Aerial Systems
*213	L.R.P.Aravind, S. Jeyaram Shibu and R.A. Alaguraja	3D modelling from airborne LIDAR point cloud data

TS – 6/2: Cryosphere

December 7, 2018 0930 – 1130 hrs	Venue: Horse Shoe Conference Room, Vikram Hall	Chair: Dr. Shakil A. Romshoo Co-Chair: Dr. I.M. Bahuguna
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ID	Authors	Title
195	Shakil Ahmad Romshoo	The melting cryosphere in the north-western Himalaya, India: Past, Present and Future scenario
278	S. K. Singh, B. P. Rathore, Naveen Tripathi, I. M. Bahuguna and A. S. Rajawat	Operational snow cover product using INSAT-3D data from geostationary platform
156	Yatharath Bhateja, Tushar Shukla, Indranil Misra, Sampa Roy and Debajyoti Dhar	An automated feature tracking based algorithm for estimation of ice flow and glacier surface velocity using Resourcesat-2A data for Himalayan terrain
286	K. M. Sreejith, S. K. Singh, Akansha Patel and A. S. Rajawat	Retrieval of glacier ice velocity and thickness: A case study in Chandra Basin, NW Himalayas
59	Purushottam Kumar Garg, Aparna Shukla and Avtar Singh Jasrotia	Satellite based characterization of spatio-temporal trends in the surface ice velocities of the glaciers in central Himalaya
38	Sandhya R. Pattanaik, S. K Singh , I. M. Bahuguna and R. D. Shah	Spatial and temporal variability of Accumulation Area Ratio (AAR) of glaciers in Nubra, Chandra and Bhagirathi sub-basins in the Himalayan region (2008-2013)
119	M. GeethaPriya, D. Krishnaveni, I.M. Bahuguna and Krishna Venkatesh	Glacier ice surface velocity using interferometry
237	Akriti Kulshrestha, I. M. Bahuguna, Kannan V. Iyer, , B. P. Rathore, Sushil K. Singh and A. S. Rajawat	Estimation of glacier thinning using Cartosat-1 stereo data of 2005 and 2015

160	Naveen Tripathi, Sandip R. Oza and I.M Bahuguna	Surface ice dynamics of Siachen Glacier, Central Karakoram during 2008-2016 derived using image correlation of Landsat imagery
404	Poonam Mishra, D Ram Rajak, Isha Talati, and Tanvi Lad	Optimizing ship route in Antarctic Sea-ice region by multi-objective evolutionary algorithm
408	Bhasha Vachharajani, Kruti Upadhyaya and D. R. Rajak	Assessment of 1-day and 3-days SCATSAT-1 L4 products for studying different sea-ice zones in the Antarctic
280	Saroj Maity, Jayaprasad P, Pankaj Bodani, Shweta Mishra, Deepak Putrevu, Arundhati Mishra, R. K. K. Singh and Mamta Maisnam	A semi-automatic tool for generating sea ice maps for Bharati and Maitri from SCATSAT-1 data
260	S. S. Randhawa, Rajesh Kumar, B. P. Rathore, Shruti Singh and Pooja Rana	Investigations on glacier fluctuations using Indian Remote Sensing and Landsat data of Naradu Glacier, Western Himalaya
53*	Asha Thapliyal, Manish Rawat and S. Kimothi	Characterization of snow properties over the Central Himalayan region
106*	Simone Darji, Naveen Tripathi, Rajesh Shah, Sandip Oza and I.M. Bahuguna	Monitoring of ice velocity and frontal position of Mertz's and Ninnis glacier, east Antarctica
403*	Tanvi Lad, D. R. Rajak and Poonam Mishra	Modelling and optimizing ship route in sea ice areas: A review

TS – 6/3: Water Resources

December 7, 2018 0930 – 1130 hrs	Venue : Seminar Room, Vikram Hall	Chair: Shri A. Arunachalam Co-Chair: Dr. R.P. Singh
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ID	Authors	Title
225	Shard Chander, R.P. Singh and A.S. Rajawat	Decadal changes in water level over major Indian rivers using Jason series of satellite altimeters
149	Shaveta Lamba, Raj Setia, Shard Chander, Ashwin Gujrati, R. P. Singh and Brijendra Pateriya	Estimation of chlorophyll a, coloured dissolved organic matter and total suspended matter in Satluj river in Punjab using Landsat-8 OLI satellite images
168	Sadaff Altaf Bakshi, Ajaz Paray and Shakil Ahmad Romshoo	Hydrological modelling and flood vulnerability assessment in upper Jhelum basin using station and gridded precipitation datasets
61	Soumita Sengupta, Y.K. Srivastava, Raj Kapoor Sharma and V.S. Rathore	Utility of Cartosat DEM in characterization and prioritization of sub-watersheds using geospatial technologies and morphometric analysis for better water resource management
83	Amit Kumar Dubey, Rohit Pradhan and R. P. Singh	Integrated hydrological modeling over upstream catchments of Himalayan rivers and assessment of extreme hydrological events
167	Visweswara Reddy, B.	Geospatial technology for the exploration of groundwater prospect zone
300	Ashwini Kumar Das, P. Prakash Jagadish Tripathy and G Sreenivasa Reddy	Application of geospatial technology for groundwater prospects & quality mapping in Huzurabad assembly constituency, Telangana State
203	Basharath Nabi, S.A. Romshoo and I.M. Bahuguna	Assessing the impact of debris cover on glacier melting in Kashmir Himalayas, India
409	Kruti Upadhyaya, Bhasha Vachharajani and D. R. Rajak	An operational method for discriminating sea ice and water in the Antarctic using Satsat-1 Level-4 data
80*	V. Nagajothi, M. Geetha Priya and Parmanand Sharma	Mapping of seasonal snow cover and snow melt area for Miyar and Bhaga basin in Western Himalayas for hydrological year 2017-2018
232*	Suryawanshi R. K., Thube A.D. and Gavali S. G.	Application of geo-spatial tools for assessment of maximum storage potential in the watershed adopting continuous stream storage approach
268*	Gulshan Tirkey, G. Arun, S. K. Sharma and S. V. Vijaya Kumar	Flood inundation mapping of stretches of Brahmaputra River in Assam state using advanced geospatial data analysis
200*	Saurabh Srivastava and Onkar Dikshit	Seasonal and time series analysis of terrestrial water storage for the Indo-Gangetic plain using GRACE data

415*	S K Yadav, S L Borana and S K Parihar	Mapping and Demarcation of water Bodies in the Jodhpur city using Geospatial Technology
426*	V. T. Shinde, K. N. Tiwari and M. Singh	Hydrologic simulations and water quality assessment of mined watershed in Jharia coalfield, India

TS – 6/4: Poster Session-3*

December 7, 2018 0930 – 1130 hrs	Venue: Yash Pal Auditorium First Floor	Co-ordinators: Naveen Tripathi & Saurabh Tripathi
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* Papers Listed in Oral Technical Sessions with * marks and which could not be accommodated due to lack of time shall be presented in this Session as Posters

Tea: 1130 – 1200 hrs

December 7, 2018 1200 – 1315 hrs	Plenary Session - 3	Venue: Yash Pal Auditorium Chair: Shri A.R. Dasgupta
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1200-1230 hrs	Dr. V.M. Tiwari, Director, NGRI, Hyderabad
1230 – 1300 hrs	Prof. P. Janardhan, Dean, PRL, Ahmedabad
1300 – 1315 hrs	Industry Presentations

Lunch: 1315 – 1400 hrs

December 7, 2018 1400 – 1530 hrs	Concluding Session	Venue: Yash Pal Auditorium Chair: Tapan Misra
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Panel Discussions
Symposium Recommendations
Best Papers/Presentations Awards
Vote of Thanks

High Tea: 1530 – 1600 hrs

Programme at a Glance

Dec. 05, 2018	Inaugural Session 0930-1130 Yash Pal Auditorium	High Tea 1130- 1200	Plenary Session-1 1200-1315 Yash Pal Auditorium	Lunch 1315- 1400	TS-1 (Parallel) 1400-1530 Vikram Hall	Tea 1530- 1600	TS-2 (Parallel) 1600-1730 Vikram Hall	Tea 1730- 1800	1800-2000 Yash Pal Auditorium	Dinner 2000 Onwards	
	Invocation Lightening of Lamp Welcome Presidential Address Address by Guest of Honor ISG and ISRS Awards Address by Chief Guest ISG-Millennium Lecture Release of Book Vote of Thanks				Invited Lectures		TS-1/1 Web-GIS Main Lecture Hall				TS-2/1 Navigation Main Lecture Hall
					Industry Presentations		TS-1/2 Geoscience Horse Shoe Conf. Room				TS-2/2 Planetary Science Horse Shoe Conf. Room
							TS-1/3 Agriculture Seminar Room				TS-2/3 Environment Seminar Room
Dec. 06, 2018	TS-3 (Parallel) 0930-1100 Vikram Hall	Tea 1100- 1130	Plenary Session -2 1130-1300 Yash Pal Auditorium	Lunch 1300- 1400	TS-4 (Parallel) 1400-1530 Vikram Hall	Tea 1530- 1600	TS-5 (Parallel) 1600-1730 Vikram Hall	Tea 1730- 1800	1800-1930 Yash Pal Auditorium	Dinner 1930 Onwards	
	TS-3/1 Geospatial Main Lecture Hall				Invited Lectures		TS-4/1 Forestry Main Lecture Hall				TS-5/1 Urban Main Lecture Hall
	TS-3/2 Soil/Desertifi Horse Shoe Conf. Room				Industry Presentations		TS-4/2 Coastal Horse Shoe Conf. Room				TS-5/2 Marine Sci. Horse Shoe Conf. Room
	TS-3/3 Mach. Lear. Seminar Room						TS-4/3 Hyperspectral Seminar Room				TS-5/3 Microwave Seminar Room
Dec. 07, 2018	TS-6 (Parallel) 0930-1130 Vikram Hall	Tea 1130- 1200	Plenary Session -3 1200-1315 Yash Pal Auditorium	Lunch 1315- 1400	Concluding Session 1400-1530 Yash Pal Auditorium	High Tea 1530- 1600	Poster Sessions (Yash Pal Auditorium, First Floor) Dec. 05, 2018, 1600-1730, TS-2/4, Poster Session-1 Dec. 06, 2018, 1600-1730, TS-5/4, Poster Session-2 Dec. 07, 2018, 0930-1130, TS-6/4, Poster Session-3				
	TS-6/1 Advanced I.P. Main Lecture Hall				Invited Lectures						Panel Discussions
	TS-6/2 Cryosphere Horse Shoe Conf. Room				Industry Presentations						Symposium recommendations
	TS-6/3 Water Resources Seminar Room										Best paper presentation Awards