43rd INCA International Congress

06-08 November 2023 - Jodhpur

Emerging Trends in Digital Cartography for Sustainable Ecosystems and Geospatial Economy

PROGRAMME

Organised by
Indian National Cartographic Association

Hosted by
Regional Remote Sensing Centre – West
National Remote Sensing Centre
Indian Space Research Organisation
Jodhpur

Sponsors and Exhibitors

Contents

43rd INCA International Congress
06–08 November 2023 – Jodhpur

Programme at a Glance

	Day-1 (06.11.2023, Monday)		Day-2 (07.11.2023, Tuesday)		Day-3 (08.11.2023, Wednesday)	
08:30 – 09:15 hrs	Registration		--		--	
09:30 – 11:00 hrs	Inaugural Session		Plenary Session–2 (Invited Talks)	Vice Admiral Adhir Arora, AVSM, NM, NHO	Plenary Session–3 (Invited Talks)	Prof. Anil V. Kulkarni, IISc
				Shri S. K. Sinha, SOI		Dr. Raj Kumar, SAC/ISRO
				Shri Sajid Malik, Genesys Int. Corp.		Dr. Shivangi S. Somvanshi, Geospatial World
11:00 – 11:30 hrs	Tea Break & Networking					
11:30 – 13:00 hrs	Plenary Session–1	Todar Mal Memorial Lecture 'Digital Cartography for Land Records Modernization in India' by Lt. Gen. Girish Kumar, VSM (Retd.)	Technical Sessions – 2 (Parallel)		Technical Sessions – 5 (Parallel)	
			Disaster Resilience & Emergency Management – 1		Disaster Resilience & Emergency Management – 2	
			Sustainable Agriculture		UAV Applications & Advances in DIP	
		S. P. Chatterjee Memorial Lecture 'Space for Sustainable Ecosystems and Geospatial Economy' by Shri Shantanu Bhatawdekar ISRO HQ	Sustainable Water Management – 1		Sustainable Water Management – 2	
			Environmental & Ecological Sustainability		Entrepreneurship & Geospatial Economy	
13:00 – 14:00 hrs	Lunch Break					
14:00 – 15:00 hrs	Inauguration of Exhibition		Popular Talk	Shri Nilesh M. Desai, SAC/ISRO 14:00–14:45 hrs)	Panel Discussion	'Roadmap for Strengthening Geospatial Ecosystem for National Development'
			Special Session	Mrs. Manju Sarma & Team, NRSC/ISRO (14:45–15:30 hrs)		
15:00 – 16:30 hrs	Technical Sessions – 1 (Parallel)		Technical Sessions – 3 (Parallel, 15:30–16:30 hrs)		Awards & Closing (15:00–15:30 hrs)	
	Modern Technologies in Cartography		Geospatial Artificial Intelligence – 1			
	Smart Governance		Coastal Studies & Oceanography		Tea Break & Networking	
	Natural Resource Management		Meteorology & Climate Change			
	Community Health		Energy Security			
			Poster Session			
16:30 – 17:00 hrs	Tea Break & Networking					
17:00 – 18:30 hrs	Sponsors Presentations		Technical Sessions – 4 (Parallel)		INCA General Body Meeting (16:30 hrs onwards)	
			Geospatial Artificial Intelligence – 2			
			Contemporary Earth Science Studies			
			Sustainable Urban & Reg. Development			
			Urban Greenspaces & Green/Blue Economy			
			Poster Session contd.			
18:45 hrs onwards	Cultural Programme & Dinner (RRSC-West, Amphitheatre)		--		--	

VENUE

ICAR-CAZRI Auditorium (06.11.2023 F/N) (CAZRI Campus, near ITI, Jodhpur)	RRSC – West, ISRO Campus, Sector 9, Kudi Bhagtasani Housing Board, Jodhpur (06.11.2023, 13:00 hrs onwards)					
	Hall A 2nd Floor RRSC-W	Hall B 2nd Floor RRSC-W	Hall C 1st Floor RRSC-W	Hall D Ground Floor RRSC-W	Hall E 2nd Floor RRSC-W	Hall F-G 2nd Floor RRSC-W

Day 1: Overview

(06 November 2023, Monday)

Time	Programme	Venue
08:30 – 09:15 hrs	Registration	ICAR-CAZRI Auditorium, CAZRI Campus, near ITI, Jodhpur
09:30 – 11:00 hrs	Inaugural Session	
11:00 – 11:30 hrs	Tea Break & Networking	
11:30 – 13:00 hrs	Plenary Session - 1	
13:00 – 14:00 hrs	*Transit to RRSC – West Campus* Lunch	Food Court (RRSC - W)
14:00 – 15:00 hrs	Inauguration of Exhibition	Hall F, G (RRSC - W)
15:30 – 16:30 hrs	Technical Sessions - 1 (Parallel)	Hall A, B, C & D (RRSC - W)
16:30 – 17:00 hrs	Tea & Networking	Food Court (RRSC - W)
17:00 – 18:30 hrs	Sponsors Presentations	Hall A (RRSC - W)
18:45 hrs onwards	Cultural Programme & Dinner	Amphitheatre & Food Court (RRSC - W)

Day 1: Detailed Programme

Inaugural Session

06 November 2023, 09:30 – 11:00 hrs

Venue: ICAR-CAZRI Auditorium, CAZRI Campus, near ITI, Jodhpur

08:30 – 09:15 hrs	Registration
09:30 – 09:35 hrs	Invitation of the Dignitaries to the Dais & Presentation of Bouquet
09:35 – 09:40 hrs	Invocation and Lighting of Lamp
09:40 – 09:45 hrs	Welcome Address – Dr. S. K. Srivastav, Chairman, LOC
09:45 – 09:55 hrs	Presidential Address – Dr. Prakash Chauhan, President, INCA
09:55 – 10:05 hrs	Address by Guest of Honour – Dr. O. P. Yadav Director, ICAR – Central Arid Zone Research Institute
10:05 – 10:15 hrs	Address by Guest of Honour – Vice Admiral Adhir Arora, AVSM, NM Chief Hydrographer to the Govt. of India, NHO
10:15 – 10:25 hrs	Address by Guest of Honour – Prof. (Dr.) K. L. Shrivastava Vice-Chancellor, Jai Narain Vyas University
10:25 – 10:30 hrs	Release of 43rd INCA International Congress Souvenir, 42nd INCA Congress Proceedings, Indian Cartographer Volume, Space Image Atlas of Rajasthan – by Chief Guest
10:30 – 10:35 hrs	Prize distribution to INCA Map Quiz-2023 Winners – by Chief Guest
10:35 – 10:50 hrs	Address by Chief Guest – Dr. S. Somanath Chairman, Space Commission / Secretary, Department of Space / Chairman, ISRO
10:50 – 10:55 hrs	Felicitation of Guests
10:55 – 10:59 hrs	Vote of Thanks – Dr. A. K. Bera, Organising Secretary
10:59 – 11:00 hrs	National Anthem

Tea & Networking
11:00 – 11:30 hrs

INCA Memorial Lecture Series

06 November 2023, 11:30 – 13:00 hrs

Venue: ICAR-CAZRI Auditorium, CAZRI Campus, Near ITI, Jodhpur

11:30 – 11:35 hrs	Invitation of the dignitaries to the dais
11:35 – 12:15 hrs	Todar Mal Memorial Lecture *Digital Cartography for Land Records Modernization in India* by Lt. Gen. Girish Kumar, VSM (Retd.) Advisor (PP & R), Ministry of External Affairs Former Surveyor General of India
12:15 – 12:55 hrs	S. P. Chatterjee Memorial Lecture *Space for Sustainable Ecosystems and Geospatial Economy* by Shri Shantanu Bhatawdekar Scientific Secretary, ISRO
12:55 – 13:00 hrs	Felicitation of Speakers

13:00 onwards
Transit from ICAR-CAZRI Auditorium to RRSC–West Campus
-- Transport arranged by the 43rd INCA conference organisers --
Lunch
at
Food Court, RRSC-West, NRSC, ISRO campus, Sector 9, Kudi Bhagtasani Housing Board, Jodhpur

Inauguration of Exhibition

06 November 2023, 14:00 – 15:00 hrs
Venue: Hall F, G (RRSC-W)

14:00 – 14:10 hrs	Inauguration of Exhibition by Vice Admiral Adhir Arora, AVSM, NM Chief Hydrographer, NHO
14:10 – 15:00 hrs	Tour to Exhibition

Technical Sessions - 1
(Parallel)

06 November 2023, 15:00 – 16:30 hrs

Session Theme	Venue (RRSC-W)
Modern Technologies in Cartography	Hall A
Smart Governance	Hall B
Natural Resource Management	Hall C
Community Health	Hall D

Technical Session 1-A
Modern Technologies in Cartography

06 November 2023, 15:00 – 16:30 hrs, Venue: Hall A (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Radiometric correction in Elevation Direction using Beam Profile in SAR data	Swati Upadhyay, Sumit Pandey, Nidhi Chaubey, MV Srivally, Asha Rani Ben Reddy, Neeraj Mishra Advanced Data Processing Research Institute
2	Exploring smartphone-based GNSS for positioning and mapping applications	Drishti Agarwal[1], Salil Goel[1], Prashant Chauhan[1], Yagnesh Patel[1], Deval Mehta[2] [1]IIT - Kanpur [2]Space Applications Centre
3	Geovisualization of Water Resources in Urban Environments	Satyam Mishra Siddharth University
4	Assessing the performance of automatic co-registration technique in satellite image for time series analysis	Prosenjit Barman, Sk. Mustak Panjab University
5	Registration of sparse-dense point cloud from LiDAR and its applications	Surbhi Barnwal, Salil Goel, Mansi P. Koshti IIT - Kanpur
6	Seamless Polar mosaic generation from Chandrayaan-2 TMC-2 DEM	Baharul Islam, Abdullah S.A. Zinjani and Amitabh Space Applications Centre
7	Change detection and future prediction of Landuse / Land Cover at Puducherry, India using Google Earth Engine platform	Sajimol S, Immanuel A, Dash SK, Tune Usha National Centre for Coastal Research

8	Detection Transformer (DETR) based detection of Martian Craters	Sourish Chatterjee, Benidhar Deshmukh, Pinaki Roy Chowdhury Indira Gandhi National Open University
9	Phase Unwrapping Techniques for SAR Interferometry: A Comprehensive Review	Alka Saini[1,2], Deepak Mishra[2], V Manavala Manavala Ramanujam[1] [1]Space Applications Centre [2]Indian Institute of Space Science and Technology
10	Exploring the Research Trends of AI and ML in Geospatial Applications: A Bibliometric Analysis	Arup Baidya University of Delhi

Technical Session 1-B
Smart Governance
06 November 2023, 15:00 – 16:30 hrs, Venue: Hall B (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Navigating the New World of Work: Exploring the Interplay of the Sharing Economy, Digital Platforms, and the Emergence of Digital Nomad Communities	Jagriti Lamba, Anjan Sen Delhi School of Economics, University of Delhi
2	Establishment of CORS Network for Smart Governance	M. Stalin Dy. Surveyor General, Survey of India, Shillong
3	Geo Spatial technologies for urban studies & Infrastructure planning development: Spatial Integration of Revenue data with Population data	Jyoti Singh Government of India
4	Identification of Woman Trafficking Hotspots: A study on selected blocks, South 24 Parganas District, West Bengal	Supratim Karmakar, Ambar Subhra Mallick Adamas University

5	Emerging Trends in Digitalization of Social Security for Ageing Population in Bangladesh: A case of the newly introduced Universal Pension System	Israt Jahan, Anjan Sen Delhi School of Economics, University of Delhi
6	Potential of high-resolution mapping and field data for identifying facilities and amenities hotspots and use as a guide for better planning of the city expansion.	S. Aravind Bharathvaj, Y. Harish, Kaushik Brahmachari, Swapna Saha National Atlas and Thematic Mapping Organisation
7	Leveraging Geospatial Technologies for Enhanced ESG Monitoring	Rohit Malhotra Ex- Indian Army
8	Demography, Urbanisation and Urban Planning of Smart Cities using Geographical Information System (GIS)	Kamlesh Kumar Jai Narain Vyas University
9	Application of GIS in Smart Cities planning and Development: A Geographical study of Ranchi Smart City, Jharkhand.	Arpana Premi Lina Oraon, Jyotsna Roseline Ekka, Perveen Zahra Kalinga Institute of Social Sciences, Bhubaneswar
10	Calculating Discharge for Designing Drainage Structures with WEBGIS Dashboard	Noor Ladkhan, Prasun Kumar Gupta Indian Institute of Remote Sensing - Dehradun

Technical Session 1-C
Natural Resource Management

06 November 2023, 15:00 – 16:30 hrs, Venue: Hall C (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Analysis of different SAR Polarimetric Decomposition methods using EOS-04 Polarimetric data for Urban and Natural features	M. V. Srivally, Sujata Ghosh, Nidhi Chaubey, Swati Upadhyay, Sumit Pandey Advanced Data Processing Research Institute
2	Implementation of partial unmixing	Arindam Guha[1], Manche Shiva

	methods on AVIRIS NG data to distinguish spectrally similar targets within Serpentinite in Aravalli Craton, Rajasthan	Shankar[2], Suparn Pathak[1], SK Srivastav[3], K Vinod Kumar[4] [1]RRSC-East, NRSC, Kolkata [2]ECSA, NRSC, Hyderabad [3]Regional Centres, NRSC, New Delhi [4]National Remote Sensing Centre, Hyderabad
3	Remote Sensing and GIS in Identification of Soil Constraints for Sustainable Development in Ajmer District, Rajasthan.	Laxman Singh, Rajeev Jain, Manu Sikharwar, Mahendra Prakash Mathur State Remote Sensing Application Centre, Jodhpur
4	Comparative analysis of LCLU of Ranchi city and surroundings using multi-sensor remote sensing data with a global land cover product	Nikhil Raj Deep, Girish Pujar, Pondari Satyanarayana, Ronald Singh, Preetilata Murmu National Remote Sensing Centre
5	Bamboo distribution mapping using hyperspectral remote sensing in Ri Bhoi district of North East India	Dhruval Bhavsar, Kasturi Chakraborty, KK Sarma, SP Aggarwal North Eastern Space Applications Centre
6	Monitoring Land Use Land Cover Dynamics using High Resolution Satellite Data - A case study in North Goa, India	Deep Chand Chaurasia[1], S Rama Subramoniam[1], Shivam Trivedi[1], R Hebbar[1], SK Srivastav[2] [1]RRSC-South, Benguluru [2]Regional Centres, NRSC, New Delhi
7	Remote sensing-based fractal dimension algorithm to identify land cover class from time series EVI data	Niraj Priyadarshi[1], Suparn Pathak[1], Debasish Chakraborty[1], Sushil Kumar Srivastav[2], Chandrasekar K[3], Vemuri Muthayya Chowdary[3], Soumya Bandyopadhyay[4] [1]RRSC-East, NRSC, Kolkata [2]Regional Centres, NRSC, New Delhi [3]National Remote Sensing Centre, Hyderabad

		[4]Indian Space Research Organization HQ, Bengaluru
8	Hyperspectral Reflectance for Preliminary Identification of Degraded or Contaminated Soil Zones in Industrial Sites: Screening Tool Prior to Undertaking Ground Based Investigations	Amitava Dutta, Rashi Tyagi, Shilpi Sharma, Manoj Datta IIT- DELHI
9	GIS Mapping and IUCN Assessment of the Threatened and Endemic Species of Indian Desert, Rajasthan	C.S. Purohit, S.L. Meena, Amit Kumar Botanical Survey of India, Arid Zone Research Institute, Jodhpur
10	Application of Geospatial technologies in Role of nalas in development of landforms and land use pattern, Leh Valley, Ladakh	Rupam Kumar Dutta University of Calcutta

Technical Session 1-D
Community Health

06 November 2023, 15:00 – 16:30 hrs, Venue: Hall D (RRSC-W)

Chair:
Co-Chair:
Rapporteur:

Sl No.	Title	Authors
1	Food Safety Trends in India: A Geospatial Analysis	Sachin Panjab University Chandigarh
2	Increasing Heart Attacks in Indian Youth - Post COVID Health Hazards and Mitigation Measures Using Geospatial Technologies	B. K. Ram Prasad National Hydrographic Office
3	Spatial Pattern of Health-Care Facilities in Jammu district of J&K: An Analysis Using Geo-Spatial Technology	Rajender Singh, Gursheen Kour, Davinder Singh, Meetu Sharma, Mehak Patyal University of Jammu
4	A GeoSpatial Distribution of Primary Health Centres Services in Karur District Using GIS	P. Umasankar, Dr. R. Vijaya, Dr.V. Saravanabavan Madurai Kamraj University

5	Public Healthcare Facilities in Bathinda District, Punjab: A Geo-Spatial Analysis	Amandeep Singh, Adyan Ul Haq, L. T. Sasang Guite Central University of Punjab
6	Evaluating Geographical Accessibility to Healthcare Centres in Nagaon Municipal Master Plan Area Using GIS: Obstacles and Prospects	Ashish Saikia, Bimal Kumar Kar Gauhati University
7	Assessment of Accessibility to Block Primary Health Centres in West Bengal Using Geographic Information System: A District-Level Analysis	Sohini Pal[1], AKM Anwaruzzaman[2] [1]National Atlas and Thematic Mapping Organisation [2]Aliah University
8	Geospatial Analysis of Healthcare Accessibility to Analyse the Implications for Equity and Economic Development. A Case Study of Chitteri Hills in Eastern Ghats	Narmada. K, Bhaskaran G University of Madras
9	Geographical Accessibility and Spatial Coverage Modelling of The Healthcare Centers in Chamarajanagara District (Karnataka)	Divya Shivamallu, N. S. Satheesh Kumar Karnataka State Open University
10	Thematic Mapping of Contraceptive use in Bihar (India) using Geospatial Technology: Evidence from National Family Health Surveys, 2015-16 and 2019-20	Binod Kumar Singh Office of the Registrar General & Census Commissioner, New Delhi

Tea Break & Networking
16:30 – 17:00 hrs

Sponsors Presentations
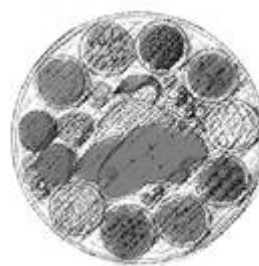
06 November 2023, 17:00 – 18:30 hrs, Venue: Hall A (RRSC-W)

Session Moderator:

Sl No.	Sponsor
1	Ananth Technologies
2	Vassar Labs
3	Trimble & Pan India Consultants Pvt. Ltd.
4	Dept. of Science & Technology, Govt. of India
5	Ministry of Earth Sciences, Govt. of India
6	Haryana Space Applications Centre (HARSAC)
7	NewSpace India Limited, Dept. of Space, Govt. of India
8	Indian Space Research Organisation (ISRO HQ), Govt. of India

Cultural Programme and Dinner

06 November 2023, 18:45 onwards
Venue: Cultural Programme at Amphitheatre (RRSC-W) and Dinner at Food
Court (RRSC-W)

Day 2: Overview

(07 November 2023, Tuesday)

Time	Programme	Venue
09:30 – 11:00 hrs	Plenary Session - 2	Hall A (RRSC-W)
11:00 – 11:30 hrs	Tea & Networking	Food Court (RRSC-W)
11:30 – 13:00 hrs	Technical Sessions - 2 (Parallel)	Hall A, B, C & D (RRSC-W)
13:00 – 14:00 hrs	Lunch	Food Court (RRSC-W)
14:00 – 14:45 hrs	Popular Talk	Hall A (RRSC-W)
14:45 – 15:30 hrs	Special Session	Hall A (RRSC-W)
15:30 – 1630 hrs	Technical Sessions - 3 (Parallel)	Hall A, B, C & D (RRSC-W)
	Poster Session	Hall E (RRSC-W)
16:30 – 17:00 hrs	Tea & Networking	Food Court (RRSC-W)
17:00 – 18:30 hrs	Technical Sessions - 4 (Parallel)	Hall A, B, C & D (RRSC-W)
	Poster Session (contd.)	Hall E (RRSC-W)

Day 2: Detailed Programme

Plenary Session – 2

07 November 2023, 09:30 – 11:00 hrs

Venue: Hall A (RRSC-W)

Session Moderator:

09:30 – 09:35 hrs	Invitation of the dignitaries to the dais
09:35 – 10:00 hrs	*Hydrography-The Blue Chakra for Green Planet* by Vice Admiral Adhir Arora, AVSM, NM Chief Hydrographer to the Govt. of India National Hydrographic Office
10:00 – 10:25 hrs	*CORS Network and Geoid Modelling – Redefining the National Geodetic Reference Framework* by Shri S. K. Sinha Addl. Surveyor General (Tech) Survey of India
10:25 – 10:50 hrs	*Digital Twin for Resilient and Sustainable Infrastructure* by Shri Sajid Malik Chairman & Managing Director Genesys International Corporation Ltd
10:50 – 10:55 hrs	Discussion
10:55 – 11:00 hrs	Felicitation of Speakers

Tea Break & Networking
11:00 – 11:30 hrs

Technical Sessions - 2
(Parallel)

07 November 2023, 11:30 – 13:30 hrs

Session Theme	Venue (RRSC-W)
Disaster Resilience & Emergency Management – 1	Hall A
Sustainable Agriculture	Hall B
Sustainable Water Management – 1	Hall C
Environmental & Ecological Sustainability	Hall D

Technical Session 2-A
Disaster Resilience & Emergency Management – 1

07 November 2023, 11:30 – 13:30 hrs, Venue: Hall A (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Socioeconomic Vulnerability to Urban Flooding in Hyderabad, Telangana, India	Vikas Sehra[1], Chandra Prakash Morya[2] [1]Jawaharlal Nehru University, New Delhi [2]Rajasthan University
2	Geospatial based monitoring and assessment of vegetation recovery in landslides triggered during 'Uttarakhand Tragedy' in Rudraprayag district	Deepesh Goyal, Shipra Tyagi, Varun Joshi Guru Gobind Singh Indraprastha University
3	Landslide susceptibility mapping using GIS-based statistical models and Remote sensing data in Kalimpong district, West Bengal	Debdip Bhattacharjee and Tapas Sarkar Sukanta Mahavidyalaya
4	Ensemble Machine Learning Approach for Landslide Susceptibility Mapping in Kodagu District, Karnataka	Kajal Kumari, S. Abdul Rahaman Bangalore University
5	Application of Advanced Geospatial-AI Integration for Landslide Susceptibility	Sayantan Mandal

	Mapping: Enhancing Prediction accuracy through Deep Learning Integration	Delhi School of Economics, University of Delhi
6	Morphometric Analysis and Geospatial Applications for Flash Flood Susceptibility Assessment: A Case Study of Mal River basin, West Bengal	Raja Ghosh[1], Debdip Bhattacharjee[2],Sandip Ghosh[1] [1]Khudiram Bose Central College, Kolkatal [2]Sukanta Mahavidyalaya
7	PSI, SBAS and Hybrid InSAR for Land Deformation Analysis over Himalayan Terrain	Hari Shankar[1], Dharmendra Singh[2], Prakash Chauhan[3] [1]Indian Institute of Remote Sensing [2]Indian Institute of Technology - Roorkee [3]National Remote Sensing Centre, Hyderabad
8	Geo-Mapping of Covid-19 Incidence and its Relationship with Inequalities of Urban Housing and Basic Services in Bhopal city (India)	Amit Chatterjee[1], Shib Sankar Bagdi[2], Monidip Mondal[3] [1]Visva-Bharati, Santiniketan [2]Independent Researcher [3]Jawaharlal Nehru University
9	Village-Level Flood Scenario Analysis of an Extreme Flood Event using Geospatial Techniques for Disaster Emergency Management	G. Sreenivasan, Jugal Kishore Mani and A. O. Varghese Regional Remote Sensing Centre-Central, NRSC, Nagpur
10	Landslide Susceptibility mapping of Malappuram District, Kerala using Analytical Hierarchy Method	P.P Sreekala[1], Vandita Srivastava[2], Shovan Lal C[2] [1]Cochin University of Science and Technology [2]Indian Institute of Remote Sensing
11	Flood Inundation Mapping using SAR and Deep Learning	Aishwarya Makwana[1], Shivani Pathak[2], Vaibhav Garg[1] [1]Indian Institute of Remote Sensing [2]ESRI R&D Center, New Delhi

Technical Session 2-B
Sustainable Agriculture
07 November 2023, 11:30 – 13:00 hrs, Venue: Hall B (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Identifying the potential limiting factors towards crop intensification over Panrui gram panchayat of Birbhum, West Bengal	Prabir Kumar Das[1], Tanumi Kumar[1], Nivedita Sinha[1], Sharmistha B Pandey[1], Saikat Laha[1], Subrata Mandal[2], Soumya Bandopadhyay[3], Suparn Pathak[1] [1]Regional Remote Sensing Centre - East, NRSC, Kolkata [2]Rathindra Krishi Vigyan Kendra, ICAR [3]Earth observation applications & Disaster management support Programme Office, ISRO HQ.
2	Synergistic Integration of Optical, Microwave, Weather, and Pheno-phase Information Towards Developing a Robust Wheat Yield Proxy	Varun Pandey, Karun Kumar Choudhary, V. M. Chowdary National Remote Sensing Centre, Hyderabad
3	Kharif Crop Typing of Haryana State Using Geo-Spatial Approach	Dharmendra Singh, Neha Pandey, Priti Atri, Parmod Kalkal, Sultan Singh Haryana Space Applications Centre
4	Geographical Analysis of the Need for Modernization of Agriculture in Bihar	Jyotshana, Namrata Anand Veer Kunwar Singh University
5	GIS-based Probabilistic Profitable horticulture land use for sustainable agriculture planning Using Multi Variables Decision Making, Machine Learning Models in Raiganj Subdivision, Eastern India	Sunil Saha[1], Prolay Mondal[2] [1] National Atlas and Thematic Mapping Organisation. [2]Raiganj University
6	Rice plant disease detection using Artificial	Arati Paul[1], Sanskar Goel[2], Suparn

	Intelligence	Pathak[1] [1]Regional Remote Sensing Centre - East, NRSC, Kolkata [2]Amity University, Kolkata
7	Mapping of Climatic Suitability to Sugarcane Cultivation and Assessment of Irrigation Requirement in Pune District Using Eco-crop and CROPWAT Models from Geospatial Technology	D D Bombe Sathaye College, Vile Parle, Mumbai
8	Vegetative health assessment of citrus orchards using geospatial techniques	Jugal Kishore Mani, A. O. Varghese, G. Sreenivasan [1]Regional Remote Sensing Centre - East, NRSC, Kolkata
9	A Stacked Generalization Approach and Machine Learning Based Crop Classification Using Sentinel-1A Satellite Imagery for Aligarh District	Nandani Shrivastava, Rani Singh, Akash Goyal Birla institute of Scientific Research Centre, Jaipur
10	Appraisal of Agricultural Situation and Challenges in Sirohi District, Rajasthan	Balak Ram ICAR-CAZRI, Jodhpur

Technical Session 2-C
Sustainable Water Management – 1

07 November 2023, 11:30 – 13:00 hrs, Venue: Hall C (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Groundwater potential mapping of a tropical river basin using data driven evidential Belief function, knowledge-based analytic hierarchy process and an ensemble model	Biman Ghosh, Soumen Sadhukhan National Atlas and Thematic Mapping Organisation
2	Empowering water supply for Selected Urban Local Bodies (ULBs) using GIS, IoT and Artificial Intelligence technologies in	Gangadharappa R Karnataka State Council for Science

	Karnataka	and Technology
3	From Abundance to Depletion: A Geospatial Approach to Understanding Groundwater Dynamics in the Yamuna Upper Sub-basin	Ratnadeep Dutta, Milap Punia, Suvamoy Pramanik Jawaharlal Nehru University
4	Prediction of landuse/landcover change using CA-ANN approach and its association with river-bank erosion on a stretch of Bhagirathi river of Lower Ganga Plain	Abhijit Paul, Soumen Sadhukhan National Atlas and Thematic Mapping Organisation
5	Spatial variability of paleochannels and their significance in groundwater reserves and riparian ecosystems – A study in Murshidabad district, India	Sucheta Mukherjee Sripat Singh College, Murshidabad
6	Holistic Characterization of Ramsar Wetland Site, North India for Sustainable Management: A Case Study using Geospatial Techniques	Vipan Kumar Verma, Koyel Sur, Brijendra Pateriya Punjab Remote Sensing Centre
7	Estimation Of Soil Erosion in Part of Siwalik Region Using Revised Universal Soil Loss Equation (RUSLE) Model	Sunil Kumar, Shruti Kanga Central University of Punjab
8	Application of Fuzzy C-means clustering and Fuzzy EDAS for evaluating the suitability of groundwater irrigation and prioritizing agricultural development in an intricate hydrogeological basin	Sudipa Halder National Atlas and Thematic Mapping Organisation
9	Delineation of groundwater potential zones and its extension of contamination to human health risk assessment with special reference to arsenic contamination in Malda district of West Bengal, India	Khushwant Rao[1], Arkoprovo Biswas[2], Dev Sen Gupta[3] [1]National Atlas and Thematic Mapping Organisation [2] Banaras Hindu University, Varanasi [3]Defence Geoinformatics Research Establishment, DRDO Chandigarh
10	Hydrogeomorphological Approach in Water Resource Management of Asan Watershed, Western Doon Valley, Uttarakhand, India	Pijush Roy National Atlas and Thematic Mapping Organisation

Technical Session 2-D
Environmental & Ecological Sustainability
07 November 2023, 11:30 – 13:00 hrs, Venue: Hall D (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Assessment of forest fragmentation in the Sub-Himalayan region in Haryana state and adjoining area	Poonam Chandel Panjab University
2	Estimation of soil loss in Mandakini River Watershed on sub watershed scale using RUSLE model and Geospatial technology	Neeraj Bohat, Varun Joshi Guru Gobind Singh Indraprastha University
3	Assessment and Application of Geo-spatial Technology for Sustainable Development Planning in Tehri Garhwal, Uttarakhand	Kutti Rawat Hemwati Nandan Bahuguna Garhwal University
4	Assessment of land degradation and its impact on Agriculture in Pali (Rajasthan): A remote sensing based analysis	Vishwmaitri Sekhawat Govt. Bangur PG College Pali
5	Mapping and Analysis of Ecosystem Services of East Kolkata Wetlands	Pawan Kumar Yadav Jamia Millia Islamia
6	Assessing the Resilience of Surface Water Bodies to Population Outbursts and Climate Fluctuations	Aakash Verma[1], Kunal Lende[1], Srashti Singh[2], and Anugya Shukla[3] [1]Tata Institute of Social Sciences [2]Indian Institute of Technology - Roorkee [3]Indian Institute of Technology - Jodhpur
7	Assessing Significant Changes in The Geomorphology and Biological Productivity of Chilika Lagoon Under the Influence of Natural Events and Anthropogenic Interventions	Kumbhakarna Mallik, Krishna Pada Bauri C.V. Raman Global University
8	Vegetation Dynamics in Open Cast Mining-Dominated Regions of Eastern India: Insights from Time-Series Landsat Satellite	Avinash Kumar Ranjan, Amit Kumar Gorai

	Data	National Institute of Technology - Rourkela
9	Geospatial Based Trend Assessment of LULC Influences on Groundwater Depth Levels: A Case Study of South Delhi Region	Deepanshi Tanwar Guru Gobind Singh Indraprastha University
10	Application of Geospatial technologies in Landscape Assessment: Upper Alaknanda River Basin	Deepa Bhattacharyya University of Calcutta, Kolkata

Lunch
13:00 – 14:00 hrs

Popular Talk
07 November 2023, 14:00 – 14:45 hrs
Venue: Hall A (RRSC-W)

14:00 – 14:05 hrs	Invitation of the dignitary to the dais
14:05 – 14:35 hrs	*India's Moon Mission: Chandrayaan-3* by Shri Nilesh M. Desai Director Space Applications Centre, ISRO
14:35 – 14:40 hrs	Discussion
14:40 – 14:45 hrs	Felicitation of Speaker

Special Session

07 November 2023, 14:45 – 15:30 hrs
Venue: Hall A (RRSC-W)

14:45 – 14:50 hrs	Invitation of the dignitaries to the dais
14:50 – 15:20 hrs	*Bhoonidhi: ISRO's EO Data Hub* by Ms. Manju Sarma & Team National Remote Sensing Centre, ISRO
15:20 – 15:25 hrs	Discussion
15:25 – 15:30 hrs	Felicitation of Speakers

Technical Sessions - 3
(Parallel)

07 November 2023, 15:30 – 16:30 hrs

Session Theme	Venue (RRSC-W)
Geospatial Artificial Intelligence (GeoAI) – 1	Hall A
Coastal Studies & Oceanography	Hall B
Meteorology & Climate Change	Hall C
Energy Security	Hall D
Poster Session	Hall E

Technical Session 3-A
Geospatial Artificial Intelligence (GeoAI) - 1
07 November 2023, 15:30 – 16:30 hrs, Venue: Hall A (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Enhancing Canopy Modeling through Deep Learning: Integrating Multi-Source EO Data and Aerial LiDAR Observations	Suraj Reddy Rodda, Praveen MSS, Rajashekar Gopalakrishnan National Remote Sensing Centre, Hyderabad
2	Assessing Machine Learning Classifiers for Tropical Land Use/Land Cover Mapping: A Study in Kochi Urban Agglomeration, India	Krishnaveni K S, Anilkumar P P National Institute of Technology - Calicut
3	Understanding the effects of influential attributes on house prices using Extreme Gradient Boosting (XGBoost) – A case study of Vadodara city, Gujarat, India	Mudit D. Mankad Maharaja Sayajirao University of Baroda
4	Characterization of Urban Waterbodies Using Deep Learning	Sampath Kumar P, Saiveena Suresh, Satish Chandra Jayanthi National Remote Sensing Centre, Hyderabad
5	Tracking Informal settlements in Desert Terrain through Space and Deep Learning: Case Study around Rajasthan Region	Reedhi Shukla, Sampath Kumar P, Satish Jayanthi, Dr. Prakash Chauhan, Kamini National Remote Sensing Centre, Hyderabad
6	Pixels in Focus: Deep Learning's Breakthrough in Remote Sensing Built-Up Segmentation	Dhiroj Kumar Behera, Ronald Singh, Pondari Satyanarayana, Rajiv Kumar National Remote Sensing Centre, Hyderabad
7	Mangrove Forest Monitoring Using Deep Learning and Landsat-8 Satellite Imagery	Shivani Pathak ESRI R&D Center, India
8	Prediction of Soil Nutrient Suitability	Chiranjit Singha, Kishore Chandra

	Mapping Using VIs-NIR Spectroscopy and Sentinel 2 Images	Swain Institute of Agriculture, Visva-Bharati

Technical Session 3-B
Coastal Studies & Oceanography
07 November 2023, 15:30 – 16:30 hrs, Venue: Hall B (RRSC-W)

Chair:
Co-Chair:
Rapporteur:

Sl No.	Title	Authors
1	Hydrographic Surveys and Geospatial Technology for Chart Compilation	Ram Ashish Prasad Indian Navy
2	Legal Provisions Enabling Coastal Zone Management in India	Manik Mahapatra, Badarees K. O, Dharma Raj M, Purvaja Ramachandran, Ramesh Ramachandran National Centre for Sustainable Coastal Management
3	Assessment of Coastal Vulnerability along the Tamil Nadu Coast: A Geospatial Approach	Manikandan N University of Madras
4	Application of Universal Hydrographic Data Model S-100 standards for Marine Spatial Data Management, Coastal Zone Management and Ocean Studies	Pankaj Kumar Mahato, BK Ramprasad National Hydrographic Office
5	Analysis of Shoreline Change using AI and Contemporary Techniques over Kerala	Soumili Dutta, Prasun Kumar Gupta Indian Institute of Remote Sensing
6	Impact Assessment of Sewage Outfall Discharges on Sea Surface Salinity Using Remote Sensing and Tidal Characteristics	Hanisha Mamidisetti[1], Ritesh Vijay[2] [1]CSIR - NEERI, [2]Academy of Scientific and Innovative Research

Technical Session 3-C
Meteorology & Climate Change

07 November 2023, 15:30 – 16:30 hrs, Venue: Hall C (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Climate Change Impacts on Runoff and Sediment Yield	Arpit Chouksey[1], Subashisa Dutta[2] [1]Indian Institute of Remote Sensing [2]Indian Institute of Technology - Guwahati
2	Quantification of Forest Degradation Area and its Contribution to Global Climate Change: A Case Study in Asia's Largest Dense Sal Forest, Saranda, Jharkhand, India	Subhas Garai, Sanup Mandal, Sk Mujibar Rahaman, Sraboni Bhattacharya Pakrasi National Atlas and Thematic Mapping Organisation
3	Synergy of Satellite and In-Situ Data for Foliar Dust Approximation in Coal Mining Regions	Avinash Kumar Ranjan, Amit Kumar Gorai NIT - Rourkela
4	Increase in Land Surface Temperature and Urban Thermal Field Variance Index (UTFVI) Phenomenon Observed at the Eastern Himalayan Urban Centers of India	Veedhya Chettry[1], Sabarinath D[2], I.K Manonmani[1] [1]Madurai Kamaraj University [2]Indian Institute for Human Settlements
5	Investigation Of the Spatiotemporal Variability of Meteorological Parameters Associated with The Extreme Rainfall Events Using Indian Geostationary Satellite Data	Ahana Mukhopadhyay, Charu Singh Indian Institute of Remote Sensing
6	Response of maize yield in future climate of Namakkal district with reference to HADGEM2-ES and GFDL-CM3 climate models, Tamil Nadu, India	Vinothkanna S[1] and V Emayavaramban[2] [1]Government Arts College (Aut) [2]Madurai Kamaraj University

Technical Session 3-D
Energy Security

07 November 2023, 15:30 – 16:30 hrs, Venue: Hall D (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Role of Government Subsidies in Promoting LPG as a Clean Cooking Fuel in India	Vimal Kumar, Abhishek Y National Atlas and Thematic Mapping Organisation
2	Solar Power Estimation: Use Case of Large Scale Urban Geospatial Data	Rama Dasu M, Bhavani SVL, Kamini J, Satish C Jayanthi National Remote Sensing Centre, Hyderabad
3	Identification of suitable sites for solar panel plants using Geospatial Technology	Akshita Tomar, Sadhana Jain, A O Varghese, G. Sreenivasan Regional Remote Sensing Centre-Central, NRSC,Nagpur
4	Solar Panel detection: a study using EOS Data	Jaydip Dey[1], Chitralekha Das[2], Stutee Gupta[1] [1]National Remote Sensing Centre, Hyderabad [2]National Atlas and Thematic Mapping Organisation
5	Role of Government Subsidies in Promoting LPG as a Clean Cooking Fuel in India	Vimal Kumar, Abhishek Y National Atlas and Thematic Mapping Organisation

Poster Session

07 November 2023, 15:30 – 16:30 hrs, Venue: Hall E (RRSC-W)

Sl No.	Title	Authors
1	Geospatial Blockchain: A Catalyst for Smart Governance and Sustainable Development	Mary Chingthianhoih TERI School of Advanced Studies
2	Contribution of Geospatial Technologies in Promoting Sustainable Agriculture and Irrigation Resources Study with Reference to Pali District (Raj.)	Sukhdev Meghwal Jai Narain Vyas University
3	Assessment of Land Use and Land Cover Change using Geospatial Techniques in Raichur District, South India	Degu Zewdu, Muralee C Krishnan Amrita Vishwa Vidyapeetham
4	LULC Changes after State Formation: A Case Study of Chhattisgarh	Manju Tiwari[1,2] Prasun Kumar Gupta[1] [1]Indian Institute of Remote Sensing [2]Indira Gandhi Krishi Vishwavidyalaya
5	Spatio-Temporal Analysis of Land Use and Land Cover Changes in Bhaniyana Tehsil of Jaisalmer District Using Remote Sensing and GIS Techniques	Deendayal, Om Prakash Jai Narain Vyas University
6	Dynamics of Land use Land Cover Change (LULCC) using Geospatial Techniques	Sunil Madde[1], Akash Rathod[1], Rama Subramoniam S[2], B Mahalingam[1], Vishwanath B.C[1], R Hebbar[2] [1]Central University of Karnataka [2]Regional Remote Sensing Centre – South, NRSC, Bengaluru
7	Rice Yield Estimation Using Semi-Physical Approach at Village Level in Northern parts of Haryana	Dharmendra Singh, Praveen Sharma, Sultan Singh Haryana Space Applications Centre
8	Parcel Level Crop mapping using Temporal Satellite Data and Machine Learning	Gali Brahmavar[1], Nagashree M. K[2], S. Rama Subramoniam[2], Muskan

	Techniques.	Sindagi[1], R Ganiger[1], R. Hebbar[2] [1]Karnataka State Rural Development and Panchayat Raj University [2]Regional Remote Sensing Center-South, NRSC, Bengaluru
9	Mapping Cropping Intensity Using Sentinel-2 and Google Earth Engine (GEE) for two Contrast Years in the Western Part of West Bengal	Debarati Bera, Dipanwita Dutta Vidyasagar University
10	Estimation of Surface Soil Moisture from Agricultural Lands Using Multi-Spectral Optical satellite data: A Study of Bhagwanpur-I CD Block, East Medinipur, West Bengal, India.	Goutam Kumar Das Vidyasagar University
11	Protected Cultivation in Haryana: A Geospatial Analysis	Abhishek Goyat Survey of India
12	Toposequence Wise Crop Suitability for Agricultural Sustainability in Red and Lateritic Terrain of Bankura District of West Bengal	Indrajit Chowdhuri, Subodh Chandra Pal The University of Burdwan
13	Multipoint Statistics and Directional Distribution of Future Trend of Vegetation Dynamics in the Hindu Kush Himalaya Region	Nashim Nawaz, Aaisha Fatma, Nehal Ahmad, Mohd Sayeed Ul Hasan Aliah University
14	Development of a Cloud-based Application for the Assessment and Monitoring of Waterbodies in Haryana	Dharmendra Singh, Parveen Kumar, Sultan Singh Haryana Space Applications Centre
15	A Comparative Assessment of Ground Water Resources using GRACE and Ground data in highly populated regions of Haryana, India	Dharmendra Singh, Nandi Sharma, Tripti Singhal, Sultan Singh Haryana Space Applications Centre
16	Geospatial Approach for Land and Water Resource Development Planning for Dausa District of Rajasthan	Subhajit Roy[1], Sagar Subhashrao Salunkhe[1*], Suparn Pathak[2], Rakesh Paliwal[1]

		[1]Regional Remote Sensing Centre West, NRSC, Jodhpur [2]Regional Remote Sensing Centre East, NRSC, Kolkata
17	Spatially Distributed CN Technique and Earth Observation Data Sets for Grid Wise Runoff Assessment in Sarasvati River Catchment	Sagar Subhashrao Salunkhe[1], Gaurav Kumar[1], Apurba Kumar Bera[1] [1]Regional Remote Sensing Centre West, NRSC, Jodhpur
18	GIS Based Groundwater Quality Assessment and Pollution Index of Bankura District, West Bengal, India	Subhasish Sutradhar[1], Prolay Mondal[2] [1]National Atlas and Thematic Mapping Organisation [2]Raiganj University
19	Crop Yield & Acreage Estimation using Sentinel Data: A Case study of Varanasi District, Uttar Pradesh, INDIA	Sunita Singh Central University of South Bihar
20	Assessing The Impact of Urbanization on Shrinking Surface Water Sources in Salem City Using Geospatial Technology	V. Rengan[1], M. Kirithiga[2] and S. Vinothkanna[3] [1]Government Arts College, Salem [2]Department of Geography, M.V. Muthiah Government Arts College for Women, [3]Department of Geography, Government Arts College, Coimbatore
21	Role of ENM, GeoCAT and Arc-GIS software's in Conservation, mapping and IUCN Assessments of Threatened Palms in Andaman & Nicobar Islands (ANI's), India	C.S. Purohit, Bishnu Charan Dey, L.J. Singh, Vivek C.P. Central Arid Zone Research Institute, Jodhpur
22	Carrying Capacity Assessment of The Tourist Spots: A Case Study in Kolkata and Its Adjacent Area, West Bengal, India	Ankita Chakraborty Rabindra Bharati University

23	Investigation of buried archaeological sites using Satellite images, GIS processing and 2D/3D Resistivity Survey in parts of Rajasthan	Ashish Kumar Jain, Hansraj Meena RRSC-W, NRSC/ISRO
24	Monitoring and Assessment of the Jodhpur Mining Area Using Remote Sensing and GIS	S.K.Yadav, S.L. Borana Defence Laboratory, Jodhpur
25	Forest Biomass Estimation using Multi Frequency SAR Data	Rakesh Fararoda[1], Souvik Maji[1], Rakesh Paliwal[1], G Rajashekar[2], A K Bera[1], S K Srivastav[3] [1]Regional Remote Sensing Centre-West, NRSC, ISRO, Jodhpur. [2]RegionalForestry & Ecology Group, National Remote Sensing Centre, ISRO, Hyderabad. [3]Regional Remote Sensing Centre, national Remote Sensing Centre, ISRO, New Delhi
26	Multi-crop Classification using Multispectral Satellite Data and Machine Learning Algorithms – A feasibility Study	Manish Verma[1], Sushilkumar B. Rehpade[2], Kumare Darshana Rakesh[3], Rakesh Paliwal[1], AK Bera[1], SS Rao[4] [1]Regional Remote Sensing Centre – West, NRSC, Jodhpur [2]Regional Remote Sensing Centre – Central, NRSC, Nagpur [3]Squadrone Infra and Mining Private Limited [4]National Remote Sensing Centre, Hyderabad
27	Land Surface Temperature and Urban Heat Island: A Case Study of Faridabad City	Deepak Lohan[1], Gaurav Kalotra[1], Abhishek Malik[1] [1]Panjab University, Chandigarh
28	Analysis of drought patterns in the Gundar River Basin utilizing diverse indices derived	Ilamathi Rajendran

	from Ground and Remote Sensing Data	Madurai Kamaraj Univesity, Madurai
29	Enhancing Drought Monitoring through Satellite Imagery: Integrating NDVI, Drought Index, and Vegetation Change Detection Analysis Using MODIS	S.K.Yadav, S.L. Borana Defence Laboratory, Jodhpur
30	Bharatmala Pariyojana Initiative in Rajasthan: Roadmap to Achieve Sustainable Development Goals (SDGs)	Ayan Bera, Koushik Ghosh, Subham Roy Birla Institute of Technology and Science - Pilani
31	Predicting Cross-Country Mobility of Vehicles over Desert Terrain Using Geospatial Technologies	Rohit Malhotra Ex- Army
32	Physical Features of Ram Setu/Adam's Bridge: Interpretations from ICESat-2 Based High-Resolution Digital Bathymetric Elevation Model	Giribabu Dandabathula[1], Koushik Ghosh[1], Subham Roy[1], Apurba Kumar Bera[1], Sushil Kumar Srivastav[2] [1]Regional Remote Sensing Centre – West, NRSC, Jodhpur [2]Regional Centres, NRSC, New Delhi
33	Application of Geospatial Techniques in Agricultural Resource Management	Kishan Kumar Maharana Pratap University of Agriculture and Technology
34	Past LULC prediction using CA-Markov and MOLUSCE Models	Sana Rafi, Nitesh Kumar Mourya, Pragati Verma Jamia Millia Islamia
35	Site Suitability Evaluation for Nature-based Tourism Using GIS and AHP: A Case Study of Kashmir Valley, India	Shamim Ahmad Shah, Peer Jeelani, Huma Rashid, Farzana Ahad, Mir Sumira University of Kashmir
36	Exploring Potentials and Challenges in Urban Development: A Case Study of Ballia City, U.P., India	Chhaya Mishra Banasthali Vidyapith

37	Approach to ecosystem service assessment based on urban form in a tropical city of Lower Gangetic Plain, India	Swarnava Dey Jadavpur University
38	Urban Expansion in Peri Urban Hisar, Haryana using Geospatial Technology	Rahul Panjab University
39	Dynamics Of Peri-Urban Land Transformation Using Geospatial Technology: A Case of Panipat City, Haryana, India	Preeti Panjab University
40	Application of Remote Sensing Technique to Identify the Urban Heat Island: A Case Study of Coimbatore City	Sreelakshmy M Nirmala College For Women, Coimbatore
41	Crime Hotspot Detection Using Statistical and Geospatial Methods of London, England	Shwetambari Shrinivas Satpute, Majahar Shabbir Shaikh Suresh Gyan Vihar University
42	Effect of climate change on the distribution pattern and range shift of Himalayan woodpecker (Dendrocopos Himalayensis) in Uttrakhand using GIS techniques	Parul Bhatnagar Gujarat Forest Department
43	Flood Mapping and Monitoring Using Microwave Remote Sensing	Shivani Pathak, Priyanka Tuteja ESRI R&D Center India
44	Drought Mapping Using Multispectral Satellite Imagery and Deep Learning	Shivani Pathak, Priyanka Tuteja ESRI R&D Center India
45	Decline, Misuse and Degradation of Government/Common Lands in Rajasthan: A Geographic Analysis	Abha Mayank Shri Sohan Lal Manihar Girls Senior Secondary School, Jodhpur

<u>Note</u>: All presenters to display their posters well in advance and be available for interaction with the Poster Evaluation Team and delegates.

Tea Break & Networking
16:30 – 17:00 hrs

Technical Sessions - 4
(Parallel)
07 November 2023, 17:00 – 18:30 hrs

Session Theme	Venue (RRSC-W)
Geospatial Artificial Intelligence (GeoAI) – 2	Hall A
Contemporary Earth Science Studies	Hall B
Sustainable Urban & Regional Development	Hall C
Urban Greenspaces & Green/Blue Economy	Hall D
Poster Session (contd.)	Hall E

Technical Session 4-A
Geospatial Artificial Intelligence (GeoAI) – 2
07 November 2023, 17:00 – 18:30 hrs, Venue: Hall A (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Predicting Forest Fire Susceptibility employing ML and DL approaches	Mukunda Dev Behera, Parthiva Shome IIT-Kharagpur
2	Modelling Canopy structure of forest using Open Big Geospatial Data AND Deep Learning.	Col Sunil S Fatehpur College of Military Engineering, Pune
3	A deep learning approach for monitoring urban growth and analyzing surface urban heat islands over Hyderabad, Telangana,	Ronald Singh, Sachin Gautam, Nikhilraj Deep, Swastika Mandal, Pondari Satyanarayana, Rajiv Kumar

	and visualization through interactive leaflet web map	National Remote Sensing Centre, Hyderabad
4	Convolution Neural Networks Based Crop Type Classification Using Spatio-Temporal Remote Sensing Data	Preetilata Murmu, Ronald Singh, Porchelvan A, Satyanarayana P, Girish Shankar Pujar National Remote Sensing Centre, Hyderabad
5	Evaluation of Machine Learning Classifiers for Landsat 9 and Sentinel-2 Datasets	Tejash Anand, Aadrita Chowdhury, Anugya Shukla Tata Institute of Social Sciences
6	Deep Learning Approach for Classification of Horticulture Plantations Using Very High-Resolution Satellite Images	R Ganiger[1], Nagashree Mohan Kumar[2], S Rama Subramoniam[2], Mahesha D B[1], Gali Brahmavar[1], R Hebbar[2] [1]Karnataka State Rural Development and panchayat Raj University [2]Regional Remote Sensing Center-South, NRSC, Bengaluru
7	A Framework for Geo-spatial analytics using Deep Learning	Vijender Busi Reddy, D Sree kiran, K Raghavendra, D Mallikarjuna Rao Advanced Data Processing Research Institute
8	Discrimination of Transplanted and Direct Seeded Rice Using Multi-Temporal EOS-4 Sar Using Machine Learning Algorithm	Neetu, Akash Goyal, Amritpal Digra, Sameer Saran Regional Remote Sensing Centre-East, NRSC, Delhi
9	Leveraging Geospatial Intelligence and Machine Learning for Enhanced Landslide Susceptibility Assessment in Nilgiri District, India	Aneesah Rahaman, Abhishek Job Dondapati, Stutee Gupta, V Madha Suresh National Remote Sensing Centre, Hyderabad.
10	Co-active neuro fuzzy inference system for estimating reference evapotranspiration over Indore district of Madhya Pradesh	Madhulika Singh[1], Ronald Singh[2] [1]AKS University [2]National Remote Sensing Centre, Hyderabad

Technical Session 4-B
Contemporary Earth Science Studies

07 November 2023, 17:00 – 18:30 hrs, Venue: Hall B (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Assessing Seasonal Variations: Correlation Analysis between LST, Rainfall and NDVI in Sultanpur National Park	Hritik Kadian, Naresh Chandra Gupta, Neeraj Bohat, Varun Joshi Guru Gobind Singh Indraprastha University
2	Reconnoitering the Intricate Relation between AOD and LST in Singrauli, Madhya Pradesh: Implications for Mitigating Urban Heat Island Effects and Addressing Air Pollution Challenges	Bhupendra Kumar, Neeraj Bohat, Hritik Kadian, Varun Joshi, Naresh Chandra Gupta Guru Gobind Singh Indraprastha University
3	Evaluation of Spatio-temporal Variation of Satellite-derived Major Pollutants from Sentinel-5p over Eastern India	Lal Mohammad[1], Jatisankar Bandyopadhyay[1], Ismail Mondal[2], Sumana Pradhan[1], Taslima Khatun[3] [1]Vidyasagar University [2]University of Calcutta [4]Prof. S. N. Hasan College, Farakka
4	State of Aerosol Optical Depth and Black Carbon Concentration Over Western Himalayan Region	Gautham T S Jawaharlal Nehru University
5	Spatio-temporal Characteristics of Precipitation Concentration over Himachal Pradesh, India	Ajay Kumar, Omvir Singh Kurukshetra University
6	Prediction and Mitigation of agricultural and meteorological drought using ARIMA model for Naganathi Watershed, Palar Basin, South India using the remote sensing techniques	Aravind Raj S, Dipjyoti Gogoi, Narmada K, Bhaskaran G University of Madras
7	Inter-comparison of Satellite Rainfall Products with Rain Gauge Measurements over Narmada River Basin, India	Jyoti Sharma, Omvir Singh Kurukshetra University
8	Analysis of Temporal Precipitation	Gursheen Kour, Inderjeet Singh

	Variability in Jammu Region from 1990-2010	University of Jammu
9	Assessment of Drought Hazard, Vulnerability and Risk over Rajasthan, India	Divya Saini, Omvir Singh Kurukshetra University
10	Assessing the Impact of Drought on Agriculture in Jaisalmer and Bikaner, Rajasthan, India	Kriti Verma Delhi School of Economics, University of Delhi, New Delhi

Technical Session 4-C
Sustainable Urban & Regional Development
07 November 2023, 17:00 – 18:30 hrs, Venue: Hall C (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Detecting Urban Tree Loss with Synthetic Aperture Radar Data	Unmesh Khati, Anam Sabir Indian Institute of Technology - Indore
2	Modelling future urban land dynamics and their impact on land surface temperature in Bhiwadi industrial area, India	Brahampal, Jitendra kumar Central University of Haryana
3	Toward mapping road network patterns from Volunteered Geographic Information Using OpenStreetMap	Shamim Ahmad Shah, Farzana Ahad, Huma Rashid, Peer Jeelani, Mir Sumira University of Kashmir
4	An Assessment of Built-Up Area in Madurai City Using Geospatial Technology	Parvathy M R, Dr. I K Manonmani Madurai Kamaraj University
5	Assessment Of Urban Sprawl in Hisar City Using Remote Sensing and GIS Techniques	Deepak, Shruti Kanga Central university of Punjab
6	Geospatial Technologies for Urban Development	Gajendra Singh Rathore, Yuvraj Singh Rathore Janardan Rai Nagar Rajasthan

		Vidhyapeeth
7	Optimal cell phone tower location based on 3D GIS	Nalini J, Narender B, Muralikrishnan S, Prakash Chauhan National Remote Sensing Centre, Hyderabad
8	Assessment of Inclusion in the Distribution, Availability, and Access to Public Open Spaces in Varanasi City: A geospatial approach for SDG-11.7.	Garima Jasrotia[1], Kiran Kumari Singh[2] [1]Central University of Punjab [2]University of Allahabad
9	Analyzing the Urban Heat Island Dynamics in Kolkata City, India	Aadrita Chowdhury1, TejashAnand1, Srashti Singh2, and Anugya Shukla3 [1]Tata Institute of Social Sciences [2] Indian Institute of Technology - Roorkee, [3]Indian Institute of Technology - Jodhpur
10	The Role of GIS in Sustainable Urban Planning and Management in India	Kiran Kumari Central university of South Bihar

Technical Session 4-D
Urban Greenspaces & Green/Blue Economy
07 November 2023, 17:00 – 18:30 hrs, Venue: Hall D (RRSC-W)

Chair:
Co-Chair:
Rapporteur:

Sl No.	Title	Authors
1	Assessment of socio-economic embeddedness of Urban green space in Delhi: A micro-level study using geospatial techniques.	Ravindra Singh, Milap Punia Jawaharlal Nehru University
2	Promoting Equitable Urban Greenspaces: Hotspot Analysis of Parks in Delhi	Priyanka Jha Jamia Millia Islamia

3	Urban Green Spaces Identification and Planning Using Geo-Informatics Approach	Anil Kumar, Rambir Singh Ch. Bansilal Govt. College for Women, Tosham
4	Use of Geospatial Technologies for Food Security and Green Economies, a Global Perspective	Rajendra Parihar Jai Narain Vyas University
5	Site Suitability Analysis for Aquaculture and Management Using Multi Criteria Decision Analysis (MCDA) and Analytic Hierarchy Process (AHP)	Riju Singha Modak, Nirupam Acharyya, Jatisankar Bandyo-padhyay, Suman Das Vidyasagar University Midnapore
6	Analysing Growth Dynamics of Census Towns and Access to Drinking Water: A Case Study of Murshidabad District, West Bengal	Sanjoy Mandal, Amit Chatterjee Visva-Bharati, Santiniketan
7	Assessment of Ecotourism Potential of Sariska Tiger Reserve for Growth of Green Economy	Vivek Raj Singh Chauhan, Lalit Singh Jhala Jai Narain Vyas University
8	Assessment of Urban Green Space's Availability and Proximity in Kanpur, India	Harsha Choudhary, Asmita, Jitendra Kumar Central University of Haryana
9	Identifying Agricultural Drought Hazard Area Using AHP Technique in Southern Agro Climatic Zone of Tamil Nadu	Rajee R and Dr. V. Emayavaramban Madurai Kamaraj University
10	Economic Analysis of Mushroom Cultivation and its Productivity in Bihar	Archana kumari S.K.M. College Begusarai

Poster Session (contd.)

07 November 2023, 17:00 – 18:30 hrs, Venue: Hall E (RRSC-W)

<u>Note</u>: All presenters to display their posters well in advance and be available for interaction with the Poster Evaluation Team and delegates.

Day 3: Overview

(08 November 2023, Wednesday)

Time	Programme	Venue
09:30 – 11:00 hrs	Plenary Session - 3	Hall A (RRSC-W)
11:00 – 11:30 hrs	Tea & Networking	Food Court (RRSC-W)
11:30 – 13:00 hrs	Technical Sessions - 5 (Parallel)	Hall A, B, C & D (RRSC-W)
13:00 – 14:00 hrs	Lunch	Food Court (RRSC-W)
14:00 – 15:00 hrs	Panel Discussion	Hall A (RRSC-W)
15:00 – 15:30 hrs	Awards & Closing	Hall A (RRSC-W)

Day 3: Detailed Programme

Plenary Session – 3

08 November 2023, 09:30 – 11:00 hrs, Venue: Hall A (RRSC-W)

Session Moderator:

09:30 – 09:35 hrs	Invitation of the dignitaries to the dais
09:35 – 10:00 hrs	*Impact of Climate Change on Himalayan Glaciers: Geospatial Retrospective* by Prof. Anil V. Kulkarni Distinguished Visiting Scientist, IISc
10:00 – 10:25 hrs	*NISAR: A Future Mission for Monitoring Earth's Ecosystem Dynamics* by Dr. Raj Kumar Prof Satish Dhawan Scientist SAC, ISRO
10:25 – 10:0 hrs	*Geospatial Economy - Prospects and Challenges* by Dr. Shivangi S. Somvanshi Director (Geospatial Knowledge Infrastructure) Geospatial World
10:50 – 10:55 hrs	Discussion
10:55 – 11:00 hrs	Felicitation of Speakers

Tea & Networking
11:00 – 11:30 hrs at Food Court (RRSC-W)

Technical Sessions - 5
(Parallel)
08 November 2023, 11:30 – 13:30 hrs

Session Theme	Venue (RRSC-W)
Disaster Resilience & Emergency Management – 2	Hall A
UAV Applications & Advances in Digital Image Processing (DIP)	Hall B
Sustainable Water Management – 2	Hall C
Entrepreneurship & Geospatial Economy	Hall D

Technical Session 5-A
Disaster Resilience & Emergency Management – 2
08 November 2023, 11:30 – 13:30 hrs, Venue: Hall A (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Flood prone area mapping using Analytic Hierarchy Process (AHP) and Geospatial techniques in the part of Keleghai River Basin	Jatisankar Bandyopadhyay[1], Suman Das[1], Nirupam Acharyya[1], Saroj Maity[2], Riju Singha Modak[1] and Lal Mohammad[1] [1]Vidyasagar University [2]Space Application Centre
2	Comparative Assessment of Burnt Area Mapping using UNet Convolutional Neural Network, Random Forest, and Support Vector Machine.	Praveen Mutyala National Remote Sensing Centre, Hyderabad
3	Rainfall Induced Landslide Detection Using Persistent Scatter Interferometry	Dharmendra Singh, Annu Kumari, Sultan Singh Haryana Space Applications Centre
4	Geospatial technologies for building disaster resilience and emergency	Bhagwat Prakash Dayma, Ashwani Arya

	management	Govt. College, Jodhpur
5	Automated Mapping of Rice Stubble Burnt Area Progression	Parichay S. Raju, Abhishek Chakraborty, Bhavana Sahay, V. M. Chowdary National Remote Sensing Centre, Hyderabad
6	Role of Satellites in Disasterramadevi Resilience	A.V. Ramani, N. Rama Devi, K. Sudhakar, V. Ramakrishna Sastry, N. Aparna National Remote Sensing Centre, Hyderabad
7	Monitoring ecological crisis of Kolkata Metropolitan Area using spatial technology	Pritam Mitra, Sk Mustak Central University of Punjab
8	Assessment of Flood Risk using Analytical Hierarchy Process and Machine Learning Techniques: A Case Study of Guwahati, Assam	Ankita Tamuli, Ransai Basumatary, Sujit Deka Bodoland University
9	Storm Water Inundation Potentiality Mapping of Kolkata Using Advanced Machine Learning Techniques	Mampi Pal[1], Sasanka Ghosh[2] [1]National Atlas and Thematic Mapping Organisation [2]Kazi Nazrul University
10	Forest Fire Risk Assessment Using Machine Learning Approach: A Case Study of Shimla Forest Division, Himachal Pradesh (India)	Bhawna Thakur, Shruti Kanga Central University of Punjab, Bathinda

Technical Session 5-B
UAV Applications & Advances in Digital Image Processing (DIP)

08 November 2023, 11:30 – 13:00 hrs, Venue: Hall B (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Automatic Feature Extraction of UAV imagery using Deep Learning	Col Ranjan Negi Survey of India
2	UAV Application for Monitor and Map the Health of Solar Power Plant: A Study of Selected States in India	G. Shivakumar Nayka[1], Keshav Vajapeyam[1], Ramappa K B[2] [1]Institute for Social and Economic Change, Bengaluru [2]Audit Team Evaluator - Flight and Avionics
3	Fly Over the Farm: Monitor and Map the Health of Sugarcane and Maize Using Drone Application	Ramappa K B[1], G. Shivakumar Nayka[2], Keshav Vajapeyam[2] [1]Audit Team Evaluator - Flight and Avionics [2]Institute for Social and Economic Change
4	Tree Detection and Characterization in Diverse Agroforestry Systems using UAV Imagery and DL	Nagashree Mohan Kumar[1], Rama Subramoniam S[1], Satish Kumar B[2], Shivam Trivedi[1], Maddy Reddy S[4], Satisha G.C[3], Chamundeshwari D[2], Narendran J[2], Premananda.B. D[4], Ramachandra Hebbar[1], Srivastav SK[5] [1]Regional Remote Sensing Center - South, NRSC, Bangalore [2]National Remote Sensing Centre, Hyderabad. [3]Indian Institute of Horticulture Research, Bengaluru, [4]University of Agriculture Sciences, Bengaluru

		[5]Regional Centres, NRSC, New Delhi
5	A Comparative Assessment of Deep Learning Architectures for Tree Species Identification using UAV Images	Vinod PV[1], Shivam Trivedi[1], Behera MD[2], Rama Subramoniam S[1], Nagashree MK[1], Narendran J[3], Hebbar R[1], Srivastav SK[4] [1]Regional Remote Sensing Center - South, NRSC, Bengalore [2]IIT-Kharagpur, [3] National Remote Sensing Centre, Hyderabad. [4]Regional Centres, NRSC, New Delhi
6	Extraction of canopy parameters of Sweet Orange (Citrus sinensis) Trees using UAV based multispectral Data through Object-based Analysis	Laxman Boggarapu, Karun Kumar Choudhary, V.M. Choudary, B. Narender National Remote Sensing Centre, Hyderabad
7	UAV Application for Terrain Mapping: Ascertain Pipeline Network for "Jal Jeevan Mission" in Rural and Peri-Urban Areas of Karnataka	Keshav Vajapeyam[1], G. Shivakumar Nayka[1], Ramappa K B[2] and Shivakumara C R[3] [1]Institute for Social and Economic Change, Bengaluru [2]Audit Team Evaluator - Flight and Avionics [3]Department of Minority Welfare, Government of Karnataka
8	A Hybrid domain approach to remove horizontal stripping in remote sensing images using spatial, frequency & wavelet components	Vikash Tyagi, N Ravi, Wagh Ganesh Nana, P Suresh Kumar, R. Chandrakanth Advanced Data Processing Research Institute
9	Band Reconstruction for High Resolution Satellite Images using Deep Learning	Md Aminur Hossain, Sanjay K. Singh, Arvind K. Singh, Devakanth S. Naidu Space Applications Centre
10	Enhancing Mining Efficiency and Safety with Autonomous Drone Technology	Darshana Kumare, Amogh Gudekar, Cyriac Joseph, Satya Prakash Balooni Squadrone Infra and Mining Pvt. Ltd.

Technical Session 5-C
Sustainable Water Management – 2

08 November 2023, 11:30 – 13:00 hrs, Venue: Hall C (RRSC-W)

Chair:

Co-Chair:

Rapporteur:

Sl No.	Title	Authors
1	Sustainable Water Resource Management and Application of Geospatial Techniques to Identify the Ground Water Quality and Quantity in Western Rajasthan	Asha Rathore, Priyansha Singh Jai Narain Vyas University
2	Modelling Of Surface Runoff Estimation Through Geoinformatics Techniques. A Case Study of Osman Sagar Reservoir, Ranga Reddy District and Telangana State	Sneha.J [1], Masilamani.P[1], Sampath Kumar.P[2] [1]Bharathidasan University, Tiruchirappalli. [2]National Remote Sensing Centre, Hyderabad.
3	GIS Based Delineation of Groundwater Potential Zones: A Case Study from Purba Bardhaman, West Bengal	Suvajit Dey, Sumit Ghorai, Atanu Halder The University of Burdwan
4	Deciphering Groundwater Potential Zones Using AHP and MIF Models by Integrating GIS Techniques: A Study of Ernakulam District, Kerala	Sabarinath D[1], Vinothkanna S[2], V Emayavaramban[3] [1]Indian Institute for Human Settlements [2]Government Arts College (Autonomous), Coimbatore [3]Madurai Kamaraj University
5	Anthropogenic Impacts on the Migration Process of River Yamuna in Delhi-NCR Using Geospatial Techniques	Mohd Asim Indira Gandhi National Open University
6	Impact of Urbanization on Natural Springs and Spring Shed Management in Urban Planet. A Case Study of Shimla City, Himachal Pradesh	Arpita Goyal, Manoj Kumar Indira Gandhi National Open University
7	Spatial-Temporal Analysis of Ground Water Scenario in Nagaur District of Rajasthan	Govind Singh

		Jai Narain Vyas University
8	Predicting Consequential Behavior of Ground Water Resources acted upon by Expeditious Urbanization in Agrarian State of Punjab, India	Koyel Sur, Vipan Kumar Verma, Brijendra Pateriya Punjab Remote Sensing Centre
9	Hydro-Geo Chemical Assessment of Domestic Ground Water Quality of Bharathapuzha Sub Catchment of South India.	Dhanusree M[1], Sreelakshmy M[2], Bhaskaran G[3], [1]NIT- Calicut [2]Nirmala College for Women, Coimbatore [3] University of Madras
10	Sustainable Water Resource Management and Application of Geospatial Techniques to Identify the Ground Water Quality and Quantity in Western Rajasthan	Asha Rathore, Priyansha Singh Jai Narain Vyas University

Technical Session 5-D
Entrepreneurship & Geospatial Economy
08 November 2023, 11:30 – 13:00 hrs, Venue: Hall D (RRSC-W)

Chair:
Co-Chair:
Rapporteur:

Sl No.	Title	Authors
1	Emerging trends in digital cartography with respect to the creative industries and cultural economy associated with 'Durga Puja in Kolkata' from West Bengal, India	Arkaprovo Das, Anjan Sen Delhi School of Economics, University of Delhi
2	Application Of Geospatial Technologies in Rural Tourism Management: A Study in Sikkim, India	Premangshu Chakrabarty, Subhajit Das Visva-Bharati
3	Navigating the New World of Work: Exploring the Interplay of the Sharing Economy, Digital Platforms, and the Emergence of Digital Nomad	Jagriti Lamba Delhi School of Economics, University of Delhi

	Communities	
4	Geospatial based mapping of Tribal Development areas using Analytical Hierarchy Process (AHP) approach in the Three Community Development Block of Jhargram District	Rali Hansda, Jatisankar Bandyopadhyay, Suman Das, Nirupam Acharyya Vidyasagar University
5	Spatial Analysis of Mining Allied Non-Quarry Activities and its impact on Local Economy	Suniti Hembrom, Saibal Kar, Sk. Mafizul Haque Centre for Studies in Social Sciences
6	The Role of Geospatial Mapping in Tourism Start-up's: Leveraging Location Intelligence for Enhanced Visitor Experiences.	Kanchan Thakur Guru Ghasidas Central University
7	Spatial Distribution Pattern and Influencing Factors of Homestays in Kalimpong district, West Bengal	Carol Christine Lepcha, Debdip Bhattacharjee, Arghya Sur Sukanta Mahavidyala,
8	Trends and Patterns of Scheduled Tribe Female Agricultural Workers in India, 2001-2011: A Geographical Study	Prawal Sharma Panjab University
9	An Analysis of Occupational Structure: A Case Study of Kerala State Using GIS Techniques	Deepthi P, Manonmani I.K. Madurai Kamaraj University
10	The Chandrayaan Mission of India: Geographical Analysis of Geographical Progress in India	Anil Kumar R.K.R.V. School Modan Gachi Mokama Patna
11	Geospatial Technology Edification: Capacity Building for Viable Evolution	Abhishek Sharma Bareilly College, Bareilly

Lunch
13:00 – 14:00 hrs

Panel Discussion

08 November 2023, 14:00 – 15:00 hrs, Venue: Hall A (RRSC - W)

Theme: Roadmap for Strengthening Geospatial Ecosystem for National Development

Moderator:

14:00 – 14:05 hrs	Invitation of the speakers to the dais
14:05 – 14:45 hrs	Dr. M. V. Ramana Murthy Director, National Centre for Coastal Research, Ministry of Earth Sciences, Govt.of India
	Dr. Debapriya Dutta Adviser, Department of Science & Technology, Govt. of India
	Dr. S. P. Aggarwal Director, North Eastern Space Applications Centre (NESAC), Dept. of Space, Govt.of India
	Shri A. Arunachalam Director – Technical & Strategy, NewSpace India Limited (NSIL), Dept. of Space, Govt.of India
	Dr. Seema Jalan Professor & Head, Dept. of Geography, Mohanlal Sukhadia University
	Dr. Mukunda D. Behera Associate Professor IIT – Kharagpur
	Dr. Nikhil Kumar President – Geospatial Business MapMyIndia
	Dr. V. S. S. Kiran CEO Garudalytics Private Limited
14:45 – 14:55 hrs	Discussion
14:55 – 15:00 hrs	Felicitation of the Panellists

Awards & Closing

08 November 2023, 15:00 – 15:30 hrs, Venue: Hall A (RRSC-W)

15:00 – 15:05 hrs	Invitation of the dignitaries to the dais
15:05 – 15:10 hrs	Conference Summary by Dr. S. K. Srivastav, Chairman, LOC
15:10 – 15:15 hrs	Awards to Best Papers & Posters
15:15 – 15:20 hrs	Mementoes to Sponsors & Exhibitors
15:20 – 15:25 hrs	Remarks by Dr. Prakash Chauhan, President, INCA
15:25 – 15:29 hrs	Vote of Thanks – Dr. A. K. Bera, Organising Secretary
15:29 – 15:30 hrs	National Anthem

High Tea

INCA General Body Meeting

08 November 2023, 16:30 onwards, Venue: Hall A (RRSC-W)

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Contact Details

Organising Secretary
43rd INCA International Congress
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National Remote Sensing Centre
Indian Space Research Organisation
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