

Background
Remote Sensing and Geographic Information System (GIS) provide significant opportunities for monitoring natural resources at various scales. The extracted data aids policymakers in formulating effective strategies for managing natural hazards and resources such as forests, agriculture, soil, water, and air. Over the decades, human activities have increasingly exerted pressure on natural systems, disrupting environmental equilibrium. This has intensified the occurrence of extreme events, adversely impacting the society and environment worldwide; eventually, leading to loss of human life, and property damage.

The availability of satellite data from diverse sensors including optical, thermal, and microwave—across multiple platforms such as space-borne satellites, Synthetic Aperture Radar (SAR), UAVs, and LiDAR has positioned geospatial technologies as a vital tool for large-scale applications. These applications span disciplines such as ecology, meteorology, agriculture, forestry, disaster management, healthcare, rural-urban planning, and transportation. Integrating remote sensing with geospatial analysis enables a deeper understanding of complex geo-environmental processes and their causal factors. Further advancement in geospatial data (better spatial, spectral, temporal, and radiometric resolution) and processing capabilities have improved efficiency in data analysis and predictability.

Remote sensing and geospatial technologies have revolutionized decision-making processes across various sectors, which serve as a bridge between government, industry, and academia by fostering collaboration and enabling innovative, data-driven solutions for sustainable development. Academia plays a crucial role in advancing geospatial science through research, education, and innovation. Artificial Intelligence and Cutting-edge algorithms, such as machine learning models have further elevated geospatial research. Academic collaboration with government and industry fosters technology transfer, ensuring that scientific discoveries translate into practical solutions for societal welfare.

THEMES

The conference will cover, but not be limited to, the following thematic areas:

- Geospatial technologies for natural resource mapping and monitoring
- GIS and remote sensing applications in agriculture, forestry, hydrology, and mining
- Climate change, environmental management, and disaster resilience
- UAVs, LiDAR, and 3D mapping for spatial analysis
- Smart cities, land-use planning, and infrastructure management
- Data analytics, AI, and machine learning in geospatial sciences
- Geospatial policy frameworks and governance for sustainable development
- Community-centric geospatial solutions for societal welfare

OBJECTIVES

- 1.To explore innovations in geospatial science and technology and their use in managing land, water, forests, and minerals.
- 2.To highlight geospatial data in decision-making for climate resilience, disaster risk reduction, and urban–rural planning, while linking science, technology, policy, and society for better governance.
- 3.To promote collaboration across academia, research, industry, and government, and identify policies, best practices, and capacity-building for integrating geospatial intelligence into planning frameworks.

WORKING MODALITY FOR THE CONFERENCE

The two days national Conference will include invited special lectures, technical sessions with oral and poster presentations, panel discussions on recent development of Geospatial Insights and Innovations. The motive of the technical session is to focus the application of geospatial insights for Sustainable Resource Management and Societal Welfare.

For paper presentation, 30 minutes will be given for invited lectures whereas 10 minutes for contributory papers including discussion.

ACCOMODATION

Limited accommodations are available in the university/guest house on a chargeable basis. The registration fees covers only basic kits, tea, lunch and Educational Excursion.

ORGANIZING COMMITTEE

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PARTICIPANTS

The national conference expects to bring around 100 participants from various prestigious regional, national, and international public and private organizations, academic and research institutions including:

- Faculty and scientist from academic and research institutions, decision-makers from government agencies (Remote Sensing Centres, Space Application Centers, Ministry of Environment-Forest and Climate Change, Water resources, Disaster management etc.)
- Persons from Industry related to Geospatial domain
- Students and Researchers involved in the use of Earth observation in the theme areas of the conference.
- Representatives of the private sector involved with Space and Earth observation, disaster management, environmental monitoring, etc.)



ABOUT CUJ

The Central University of Jharkhand (CUJ) was established through the Central University Act, 2009. In November 2025, the Central University of Jharkhand (CUJ) achieved a historic milestone by becoming the first and only university in Jharkhand to be awarded the prestigious NAAC A+ grade.

ABOUT DEPARTMENT

Department of Geoinformatics offers M.Sc Geoinformatics and Ph.D. program since 2012. The Research domains includes Vegetation/Urban/Glaciology/Hydrology/Coastal Remote Sensing, GIS,GPS & Disaster Management, etc. The department is equipped with Geospatial Modelling Lab and modern instrument such as DGPS, LiDAR,GPS-enabled MM50, Chlorophyll meter, Soil Moisture meter(TDR), Forestry Pro and MirrorStereoscope etc.

National Conference on “Geospatial Innovation for Sustainable Resource Management and Societal Welfare”

09–10 MARCH 2026

JOINTLY ORGANIZED BY :

DEPARTMENT OF GEOINFORMATICS,
CENTRAL UNIVERSITY OF
JHARKHAND (CUJ), RANCHI
&
INDIAN SOCIETY OF GEOMATICS
(ISG), RANCHI CHAPTER

IMPORTANT DATES

Submission of Abstract- **20 February 2026**

Acceptance of Abstract- **28 February 2026**

Final submission of Extended Abstract and Poster-
02 March 2026

You are required to submit an abstract (minimum 250—maximum 500 word limit) as per the template (Abstract2026cu_j_Template.docx). Only Extended Abstract submission (maximum of 4 pages) and registered participant will be given chance for Oral / Poster Presentation. Compendium of extended Abstract will be provided to all registered participant.

Poster should be made in standard size for presentation. Only unpublished research work will be accepted.

How To Apply:

<https://forms.gle/4sPDzofm5K868K3H17>

REGISTRATION FEE

Participant	Registration Fee(INR)
Students	500
Ph.D Scholars	750
Others	1500

*ISG Members are required to pay 75% of the fees.

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A/C NAME: INDIAN SOCIETY OF
GEOMATICS-RANCHI CHAPTER;
IFSC CODE: PUNB0727700

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Best paper award certificate will be given based on Expert Committee selection.

CONTACT & QUERIES:

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