Talk On

Technological Trends in Geoinformatics

organized by

Indian Institute of Space Science and Technology & IEEE GRSS Student Branch Chapter IIST

in collaboration with

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Audio Visual Lab, D2 Science block
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ABSTRACT: Geoinformatics is rapidly evolving from traditional desktop GIS systems to Distributed GIS (DGIS), a service-oriented platforms enabling dynamic, intelligent, and real-time spatial analysis, driven by advancements in Artificial Intelligence (AI), big data analytics, and ubiquitous connectivity. Modern geoinformatics integrates multi-source, high-resolution data to support decision-making in urban planning, environmental monitoring, disaster management, and business intelligence. Web GIS services facilitate real-time visualization, analysis, and sharing of geospatial data over the internet, promoting interoperability, collaboration, and cloud-based access. Key technological trends include the adoption of WebGIS to distributed GI Services, integration of Machine Learning algorithm for automated feature extraction, the proliferation of IoT-enabled sensors for real-time GIS. Furthermore, cloud-based GIS platforms integrated with open-source tools are providing access to advanced analytics, while aerial and UAV technologies with sensor on board are enhancing high-accuracy 3D spatial modeling. These advancements are promoting smarter, more collaborative governance and enabling a unified approach to integrating diverse geospatial datasets.

Speaker

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