Special Issue

Remote Sensing, Geophysics and GIS

Message from the Guest Editors

The integration of remote sensing and Geographic Information Systems (GIS) has revolutionized geophysics, providing geophysicists with unprecedented insights into Earth's subsurface dynamics. Remote sensing captures detailed spatial data from a distance, while GIS enables its integration, analysis, and visualization, facilitating the investigation of geological phenomena, subsurface mapping, and resource management. Remote sensing satellites equipped with sophisticated sensors, including multispectral, hyperspectral, and synthetic aperture radar (SAR), collect vast amounts of data with remarkable spatial and temporal resolution. These data offer valuable insights into surface features, terrain characteristics, and environmental changes, supporting comprehensive geological studies. GIS serves as the digital backbone for organizing, analyzing, and interpreting geospatial data collected through remote sensing. GIS facilitates the development of comprehensive geological models and the identification of subsurface structures. GIS-based spatial analysis tools enable the precise delineation of geological boundaries, the characterization of rock formations.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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