Special Issue

GeoAI and EO Big Data Driven Advances in Earth Environmental Science

Message from the Guest Editors

This Special Issue aims at methodological or applied studies using GeoAI and EO big data for investigating the matter, energy, and information in the hydrosphere, lithosphere, biosphere, and atmosphere on the surface of the Earth. The scale can be local, regional, or global, but large scale and long time-series studies will be preferred. In addition, monitoring and analysis studies of the key thematic indicators for high-impact events or disasters such as droughts, floods, earthquakes, tsunamis, and volcanic eruptions are especially welcome. Articles may address, but are not limited, to the following topics:

- Analysis and mining of EO big data;
- Novel GeoAI models and frameworks for modeling/processing/analyzing of EO big data;
- Retrievals of environmental variables;
- Environmental variables monitoring and prediction;
- Postprocessing of environmental variable retrievals;
- Extracting information from EO big data;
- Natural hazards monitoring and evaluation;
- Crop yield estimation;
- Land cover land use mapping and scenario prediction;
- Monitoring and analysis of high-impact events.

Guest Editors

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Deadline for manuscript submissions

closed (15 October 2025)

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Message from the Editor-in-Chief

Remote Sensing is now a prominent international journal of repute in the world of remote sensing and spatial sciences, as a pioneer and pathfinder in open access format. It has highly accomplished global remote sensing scientists on the editorial board and a dedicated team of associate editors. The journal emphasizes quality and novelty and has a rigorous peer-review process. It is now one of the top remote sensing journals with a significant Impact Factor, and a goal to become the best journal in remote sensing in the coming years. I strongly recommend *Remote Sensing* for your best research publications for a fast dissemination of your research.

Editor-in-Chief

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