Special Issue

GeoAI and EO Big Data Driven Advances in Earth Environmental Science (Second Edition)

Message from the Guest Editors

This Special Issue invites the submission of methodological or applied studies using GeoAI and EO big data for investigating matter, energy, and information in the hydrosphere, lithosphere, biosphere, and atmosphere on the surface of the Earth. Topics include but are not limited to:

- Analysis and mining of EO (e.g., optical/microwave remote sensing, LiDAR, GNSS) big data;
- Novel GeoAI models and frameworks for modeling/processing/analyzing EO big data;
- Retrievals of environmental variables (e.g., precipitation, land/sea surface temperature, soil moisture, aerosols, vegetation index, sea ice concentration, sea surface salinity, snow cover, chlorophyll-a concentration);
- 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 (e.g., epidemic outbreaks, oil spills, gas pipeline ruptures, carbon neutrality, emission peak).

Guest Editors

Dr. Min Huang

Prof. Dr. Hui Lin

Prof. Dr. Nengcheng Chen

Dr. Daoye Zhu

Dr. Kaiqi Chen

Deadline for manuscript submissions

30 April 2026

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/259276

Remote Sensing
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
remotesensing@mdpi.com

mdpi.com/journal/remotesensing

MDPI

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/journal/remotesensing

About the Journal

Message from the Editorial Board

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.

Editors-in-Chief

Dr. Prasad S. Thenkabail
Senior Scientist (ST), U. S. Geological Survey (USGS), USGS Western Geographic Science Center (WGSC), 2255, N. Gemini Dr., Flagstaff, AZ 86001, USA

Prof. Dr. Dongdong Wang
Institute of Remote Sensing and Geographic Information Systems, Peking University, Beijing, China

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubAg, GeoRef, Astrophysics Data System, Inspec, dblp, and other databases.

Journal Rank:

JCR - Q1 (Geosciences, Multidisciplinary) / CiteScore - Q1 (General Earth and Planetary Sciences)

MDPI