Special Issue

Monitoring Water Resources and Hydraulic Infrastructure with GNSS, InSAR, GRACE and SWOT Satellite Observations

Message from the Guest Editors

This Special Issue focuses on monitoring water resources and hydraulic infrastructure using modern technologies. We welcome contributions that present novel algorithms for integrating multi-satellite geodesic observations (GNSS, InSAR, GRACE, SWOT), support satellite-based flood forecasting and assessment, introduce open-source software for modeling hydraulic systems, advance groundwater and drought monitoring via multi-satellite observations, and enhance remote sensing applications for infrastructure diagnostics. This Special Issue aims to showcase innovative approaches that enhance the monitoring, management, and sustainability of water resources and hydraulic infrastructure through the integrated use of multi-satellite observations. Potential topics include, but are not limited to, the following:

- Novel algorithms for water resources and hydraulic infrastructure with GNSS, InSAR, GRACE and SWOT observations.
- Satellite-supported flood forecasting and assessment.
- Open-source software for modeling water resources and hydraulic infrastructure.
- Groundwater and drought monitoring with multi-satellite observations.
- Remote sensing of hydraulic infrastructure monitoring.

Guest Editors

Dr. Xiaoxing He

Dr. Nengfang Chao

Dr. Rui Fernandes

Dr. Gaël Kermarrec

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/255731

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

MDPI

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)