



Recent Advances in Water Resources and Water Environmental Monitoring with Remote Sensing Techniques

Guest Editors:

Prof. Dr. Xuchu Yu

College of Surveying and Geoinformatics, North China University of Water Resources and Electric Power, Zhengzhou 450045, China

Dr. Bing Liu

Department of Big Data Analysis, PLA Strategic Support Force Information Engineering University, Zhengzhou, China

Dr. Qingyu Li

Data Science in Earth Observation, Technische Universität München (TUM), Munich, Germany

Deadline for manuscript submissions:

15 September 2024

Message from the Guest Editors

With the rapid development of remote sensing technology and artificial intelligence, many novel technologies and methods have emerged regarding the application of water quality, water quantity and hydrology monitoring. This Special Issue aims to present studies that address the various uses of remote sensing data and techniques in water quality, water quantity and hydrology monitoring.

The scope of this Special Issue includes, but is not limited to, the following:

- Intelligent estimation method of water level and water volume.
- Deep learning for hydrology
- Data-driven hydrologic process learning.
- Intelligent extraction of waters with remote sensing images.
- Inversion models of water quality parameters.
- Detection and analysis of water changes with remote sensing images.
- Water pollution identification with remote sensing images.
- Novel application of remote sensing techniques in water resources and water environment monitoring.
- Deep learning and large model applied to water resources and water environment monitoring.
- Novel application of geographic information systems in water resources and environmental monitoring.





an Open Access Journal by MDPI

Editor-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

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.

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)

Contact Us

Remote Sensing Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/remotesensing
remotesensing@mdpi.com
[X@RemoteSens_MDPI](https://twitter.com/RemoteSens_MDPI)