

Special Issue

Earth Observation Satellites for Soil Moisture Monitoring

Message from the Guest Editors

This Special Issue aims to explore the latest developments in remote sensing techniques, from optical and thermal infrared to passive and active microwave measurements, for soil moisture monitoring. This Special Issue invites contributions focusing on the following topics:

- Advances in satellite-based soil moisture estimation techniques;
- Evaluation and validation of existing soil moisture products;
- Applications of satellite-derived soil moisture data in climate change studies, drought monitoring, and environmental management;
- Comparative studies between different observation networks and satellite products;
- Multiscale analysis of soil moisture variations and their implications.

Authors are encouraged to submit original research articles, reviews, and methodological studies that contribute to our understanding of satellite-based soil moisture monitoring, addressing sensor technologies, data processing methodologies, and applications of satellite-derived soil moisture data. We welcome interdisciplinary approaches that integrate remote sensing, hydrology, climatology, and environmental science.

Guest Editors

Dr. Jaromir Krzyszczyk

Department of Metrology and Modelling of Agrophysical Processes,
Institute of Agrophysics, Polish Academy of Sciences, Doświadczalna 4,
20-290 Lublin, Poland

Dr. Anna Siedliska

Department of Metrology and Modelling of Agrophysical Processes,
Institute of Agrophysics Polish Academy of Sciences, Doświadczalna 4,
20-290 Lublin, Poland

Deadline for manuscript submissions

20 October 2025



Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



mdpi.com/si/200065

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

[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)





Remote Sensing

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 8.6



[mdpi.com/journal/
remotesensing](https://mdpi.com/journal/remotesensing)



About the Journal

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

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

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)