Special Issue

Application of Satellite Remote Sensing Technology in Earth System Monitoring

Message from the Guest Editor

Climate change, air quality, and environmental degradation are the main societal challenges in the twenty-first century. In order to address these challenges, we need increased information on the Earth's system (the cryosphere, the ecosystems, the hydrosphere, and the solid Earth, as well as the oceans). A crucial component of Earth System Monitoring is satellite observations. Current satellite technology provides relevant information on atmospheric constituents, sea surface temperatures, soil moisture, snow cover, etc. The objective of this Special Issue is to provide an overview of the state-of-the-art applied research using satellite remote sensing technology for Earth System Monitoring. We welcome studies on the application or assimilation of satellite observations in models and research presenting the most recent advances in:

- land reanalysis,
- cloud properties,
- air temperature analyses,
- coupled land–atmosphere assimilation,
- numerical weather prediction,
- hydrological forecast,
- ocean dynamics,
- carbon cycle monitoring,
- etc.

Guest Editor

Dr. Stephan Havemann
Met Office, Foundation and Weather Science, Exeter EX1 3PB, UK

Deadline for manuscript submissions

closed (30 January 2025)

Remote Sensing

an Open Access Journal by MDPI

Impact Factor 4.1
CiteScore 8.6

mdpi.com/si/156166

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