remote sensing

IMPACT FACTOR 4.1

CITESCORE 8.6

an Open Access Journal by MDPI

Earth Observation of Glacier and Snow Cover Mapping in Cold Regions

Guest Editors:

Prof. Dr. Qing Cheng
School of Computer Science, China University of Geosciences, Wuhan 430074, China

Dr. Yan Huang
School of Geographical Sciences, East China Normal University, Shanghai 200062, China

Deadline for manuscript submissions:
31 March 2026

Message from the Guest Editors

Glaciers and snow cover are core components of the Earth's cryosphere and key indicators for monitoring climate change, especially in cold regions. This Special aims to showcase recent research and progress in the application of Earth observation technologies for mapping and monitoring glaciers and snow cover in cold regions. Topics may cover anything from the basic estimation of glacial and snow variables to more comprehensive aims and scales. Therefore, multisource data fusion, multiscale methods, or studies focused on cryosphere monitoring are welcome.

Articles may address, but are not limited, to the following topics:

- Dynamic remote sensing monitoring of glaciers, snow cover and ice sheets;
- Analysis of spatiotemporal changes in glaciers, snow cover and ice sheets;
- Research on the relationship between the hydrological cycle and ice and snow;
- Extreme climate monitoring;
- Cryosphere;
- Differences in ice and snow between the North and South Poles;
- The impacts of climate change on glaciers, snow cover and ice sheets;
- Applications of machine learning and deep learning in the cryosphere

mdpi.com/si/211972

Special Issue

remote sensing

IMPACT FACTOR 4.1

CITESCORE 8.6

an Open Access Journal by MDPI

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

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.

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