Special Issue

Glacial Lakes and Related Hazards: Mapping, Monitoring, and Risk Assessment

Message from the Guest Editors

Remote sensing is the most feasible technique to investigate the regional distributions and changes in glacial lakes, build glacial lake outburst floods (GLOFs) datasets, and reconstruct typical GLOF events, providing fundamental data for water resources and GLOF risk evaluation. We welcome submissions of both regular research papers and reviews on topics related to the application of remote sensing in High-Mountain Asia (HMA) glacial lakes and their related hazards, including, but not limited to:

- Novel glacial lake mapping approaches and applications at local to regional scales, including optical, SAR, unmanned aerial vehicle observations, or a mixture of these techniques;
- Glacial lake changes, drivers, interactions between glaciers and climate change, and associated hydrological implications;
- Inventory and reconstruction of typical GLOF events to reveal the mechanisms and processes of GLOFs;
- New frameworks and methods for GLOF hazard risk evaluations, as well as their application in key regions/zones/corridors of HMA;
- Impact of GLOFs on downstream communities and infrastructure;
- Remote sensing-based monitoring and early warnings.

Guest Editors

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Prof. Dr. Xin Wang

Deadline for manuscript submissions

closed (15 July 2025)

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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

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