Special Issue

Advances in Remote Sensing for Glacier Preservation

Message from the Guest Editors

This Special Issue seeks studies that integrate multisource data (e.g., satellite, UAS, ground-based sensors) and innovative methodologies, such as machine learning, SAR/InSAR, and hyperspectral imaging, to quantify glacier dynamics, mass balance, surface processes, and human-induced impacts (e.g., infrastructure development, pollution). Contributions may span scales from local glacial basins to regional/global assessments, focusing on translating observations into actionable strategies for conservation. Articles may address, but are not limited to, to the following topics:

- Glacier velocity, thickness, and volume change detection;
- Supraglacial and subglacial process monitoring (e.g., meltwater, debris cover);
- Impacts of anthropogenic activities (e.g., road construction, black carbon deposition);
- Multisensor data fusion and novel algorithm development;
- Predictive modeling of glacier retreat and water resource security;
- High-resolution mapping of glacial hazards (e.g., avalanches, GLOFs);
- Integration of remote sensing with in situ and climate data;
- Policy-relevant frameworks for cryosphere conservation.

Guest Editors

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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.

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