Special Issue

Remote Sensing for Landslide Investigation: From Ground Deformation Mapping to Hazard Assessment

Message from the Guest Editors

This Special Issue intends to highlight advanced remote sensing techniques and applications in comprehensive landslide investigation, covering the entire hazard assessment process from first detection to risk assessments. We welcome submissions that strengthen the cutting edge of:

- Advanced sensing and processing techniques— innovative applications of InSAR, optical, LiDAR, and UAV-based monitoring;
- Multi-sensor data fusion and integration— Collaborative techniques utilizing SAR, optical, LiDAR, thermal, and hyperspectral data along with in situ measurements;
- Precursor identification and early warning— Techniques for detecting small deformation patterns, acceleration trends, and environmental triggers;
- Machine learning and AI applications—Deep learning architectures, automated classification algorithms, and predictive models;
- Hazard and risk assessment frameworks—Quantitative approaches linking remote sensing observations to vulnerability analysis, exposure mapping, and risk scenarios;
- Systematic reviews, intercomparisons, and best-practice guidelines that consolidate the state of the art and define future research directions.

Guest Editors

Dr. Junwei Ma
Dr. Ding Xia
Prof. Dr. Zhong Lu

Deadline for manuscript submissions

30 April 2026

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.

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