

Special Issue

Next-Generation AI, Advanced Numerical Modeling and Multi-Sensor Fusion for Landslide Intelligence

Message from the Guest Editors

Landslides are a major natural hazard that threatens lives, infrastructure, and ecosystems. The growing wealth of Earth Observation (EO) data—from satellites, UAVs, LiDAR, and in-situ sensors—offers unprecedented opportunities for landslide risk management. Yet, the sheer volume and heterogeneity of these data make integration and interpretation a significant challenge.

Recent breakthroughs in artificial intelligence (AI) have revolutionized our ability to process and fuse such complex datasets. This Special Issue invites contributions that develop and apply innovative AI-based methodologies to harness multi-source EO data for better understanding, characterization, and prediction of landslide phenomena.

We particularly encourage studies that address:

- Detection and classification of landslides using machine/deep learning;
- Multi-sensor data fusion (InSAR, GNSS, LiDAR, UAV, optical imagery);
- Advanced numerical modelling and data assimilation;
- Multitemporal analysis and continuous monitoring;
- AI-powered early warning systems;
- Real-time edge computing and IoT integration;
- Predictive susceptibility and hazard mapping;
- Cloud-based geospatial big data analytics.

Guest Editors

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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.

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