Special Issue

Multi-Sensor Remote Sensing and Advanced Computational Frameworks for Landslide Detection and Predictive Modeling

Message from the Guest Editors

This Special Issue aims to advance the discourse on landslide research by exploring the integration of multi-sensor remote sensing (RS) technologies with state-of-the-art computational frameworks. Innovations in sensor platforms—spanning optical, radar (including InSAR and LiDAR), thermal, and hyperspectral modalities—are resulting in the generation of high-resolution, multidimensional datasets. These resources are critical for observing slope dynamics, assessing soil moisture variations, monitoring vegetation health, and detecting early signs of terrain instability. We invite submissions that demonstrate the convergence of multi-sensor RS data, cutting-edge ML techniques, GIS applications, and XAI frameworks to address critical challenges in landslide science. Emphasis should be placed on methodological innovation, real-world applicability, and interdisciplinary collaboration pushing the boundaries of landslide detection, monitoring, mapping, and forecasting.

Guest Editors

Dr. Paraskevas Tsangaratos

Dr. Wei Chen

Dr. Ioanna Ilia

Deadline for manuscript submissions

30 January 2026

About the Journal

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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