

Special Issue

Intelligent Landslide Early Warning: From Multi-Source Sensing to AI-Driven Forecasting

Message from the Guest Editors

Landslides pose significant risks to infrastructure and communities worldwide, often triggering a cascade of secondary hazards such as landslide-dammed lakes, debris flows, and landslide-induced waves, which can amplify disaster impacts. Understanding their mechanisms and improving early warning systems requires integrating multi-source monitoring technologies, physical model tests, and artificial intelligence, and recent advances in remote sensing, sensor networks, high-performance computing, and AI-driven data analysis have revolutionized landslide and secondary hazard investigations, enabling more accurate predictions and dynamic risk assessments. This Special Issue seeks to showcase cutting-edge research and innovative methodologies in landslide and secondary disaster monitoring, physical and numerical modeling, and AI applications. We invite contributions on experimental studies, case studies, and novel technological approaches that enhance our understanding of landslide processes and improve hazard mitigation strategies, and we particularly encourage interdisciplinary contributions bridging geosciences, data science, and engineering domains.

Guest Editors

Dr. Ting Xiao
Dr. Linwei Li
Dr. Jizhixian Liu

Deadline for manuscript submissions

31 August 2026



Geosciences

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 5.1



mdpi.com/si/253851

Geosciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
geosciences@mdpi.com

[mdpi.com/journal/
geosciences](https://mdpi.com/journal/geosciences)





Geosciences

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 5.1



[mdpi.com/journal/
geosciences](https://mdpi.com/journal/geosciences)



About the Journal

Message from the Editor-in-Chief

Understanding the Earth's origin and its bio-geological evolution, the multiple implications of the geosciences (as a coherent set of interconnected disciplines), and the sociocultural and ethical interdisciplinary approaches, will be crucial for a better understanding of Nature, and also for undertaking scientifically based political decisions.

We are committed to drive *Geosciences* to a position in which it is recognized for its high-quality, cutting-edge research and scientific influence, and strongly encourage and invite your participation and manuscripts.

Editor-in-Chief

Prof. Dr. Alberto G. Fairén

1. Centro de Astrobiología, CSIC-INTA, Madrid, Spain
2. Department of Astronomy, Cornell University, Ithaca, NY, USA

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), GeoRef, Astrophysics Data System, and other databases.

Journal Rank:

CiteScore - Q1 (General Earth and Planetary Sciences)