

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

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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

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