

Special Issue

Innovative Solutions in Disaster Research

Message from the Guest Editors

Floods, droughts, landslides, and wildfires are increasing in frequency and intensity due to climate change. Additionally, in many underdeveloped countries, poor urban planning is a key factor. Early Warning Systems (EWSs) are dedicated to monitoring (actual conditions), nowcasting (very short lead time), and forecasting meteorological, hydrological, and geodynamic data, and also to communicating these results in an appropriate format in order to minimize ecological and financial damage. The challenges faced by these systems are numerous, and scientific contributions are essential. On the one hand, Nonlinear Dynamics, Operational Research, and Geoinformatics are traditional tools for handling multidisciplinary data from both hazards and impacts. On the other hand, progress in Artificial Intelligence provides new opportunities for data analysis and modeling, and Remote Sensing, Internet of Things, and Citizen Science are also powerful data sources. All of these approaches can improve the effectiveness and anticipation of EWSs. We invite review and original papers on these subjects, with the intention to showcase innovative solutions emerging in the field of disaster research.

Guest Editors

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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

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