

Special Issue

Innovations in Tsunami Modeling and Early Warning Strategies to Improve Coastal Communities Resilience

Message from the Guest Editors

Tsunamis rank among the most devastating natural disasters. While catastrophic events often trigger a temporary surge in efforts to strengthen coastal resilience, this momentum tends to fade over time as decision-makers redirect attention and resources elsewhere, leaving certain aspects of preparedness underdeveloped. In particular, significant research and implementation gaps remain in early warning systems for near-shore events and for tsunamis triggered by non-seismic sources, such as landslides or volcanic eruptions. This Special Issue seeks to address these challenges by showcasing the most recent advancements in the field. Areas of focus include

- Innovative methods for rapid tsunami estimation;
- Improved techniques for coastal risk mapping;
- Real-world applications of the TsunamiReady concept, highlighting coastal locations where preparedness strategies have been successfully implemented and sustainably maintained.

By bringing together original research articles and comprehensive reviews, this Special Issue aims to foster knowledge exchange and support ongoing efforts to enhance global resilience against tsunami hazards.

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.

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