

Special Issue

Advances in Earthquake Hazard Assessment and Seismic Risk Mitigation Strategies

Message from the Guest Editors

This Special Issue “Advances in Earthquake Hazard Assessment and Seismic Risk Mitigation Strategies”, seeks innovative research that bridges the fields of seismology and civil engineering, aiming to improve our understanding of seismic hazards and enhance resilience in the built environment. Given the increasing impact of earthquakes on urban areas worldwide, interdisciplinary approaches are urgently needed that combine advanced seismic hazard modelling with structural vulnerability assessment and effective mitigation strategies. We welcome high-quality contributions including theoretical studies, methodological developments, case studies, and applications. Topics of interest include, but are not limited to, the following:

- Probabilistic and deterministic seismic hazard assessment (PSHA/DSHA);
- Seismotectonic modelling and earthquake source characterization;
- Urban-scale and regional-scale seismic risk models;
- Seismic performance of historical and cultural heritage structures;
- Post-earthquake damage surveys;
- Multi-hazard interaction;
- The use of remote sensing, GIS, and AI tools in seismic hazards.

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

Prof. Dr. John C. Eichelberger

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