Special Issue

Seismic Resistance and Vulnerability Assessments of Building Structures

Message from the Guest Editors

We are pleased to announce a Special Issue entitled "Seismic Resistance and Vulnerability Assessments of Building Structures" to be published in *Buildings*. This Special Issue aims to compile cutting-edge research and innovative methodologies focused on seismic resilience and vulnerability assessments. Potential topics of interest include, but are not limited to, the following:

- Novel seismic-resistant design approaches;
- Advanced numerical modeling techniques for seismic analysis;
- Performance-based seismic design methodologies;
- Field studies and case histories of seismic events and building responses;
- Seismic vulnerability assessment methodologies;
- Retrofitting and strengthening techniques for existing structures;
- Innovative materials for seismic-resistant construction;
- The socio-economic implications of seismic risk and resilience measures;
- The integration of resilience concepts into building codes and standards;
- Multi-hazard risk assessments for buildings in seismically active regions.

Guest Editors

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Deadline for manuscript submissions

31 August 2026

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/207572

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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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