

Special Issue

Seismic Protection and Preparedness of the Built Environment

Message from the Guest Editors

This Special Issue intends to investigate emerging trends in seismic protection and preparedness, providing a platform to discuss open challenges and foster research in these fields. Specifically, it seeks to collect recent advancements, significant applications and innovative proposals focused on risk and vulnerability assessments, mitigation measures, preventive strategies and post-event evaluation methods at both building and urban scales. The goal is to showcase how recent developments in experimental and numerical analyses have led to robust solutions for the evaluation and enhancement of seismic safety, while post-disaster studies have generated critical knowledge regarding the vulnerability of the built environment. We welcome contributions addressing a broad range of topics, including, but not limited to, the following:

- Structural health monitoring for early warnings;
- Simplified methods for seismic vulnerability assessment at building and urban scales;
- Advancement in testing, retrofitting and numerical modeling;
- Socio-economic impact assessment;
- Post-earthquake damage and loss assessment;
- Relevant case study applications.

Guest Editors

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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.

Editor-in-Chief

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