



## New Trends in Seismic Structures

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Deadline for manuscript  
submissions:

**closed (30 December 2023)**

### Message from the Guest Editors

Dear Colleagues,

The capacity of new constructions to resist earthquakes represents a necessity for the protection of human life. In the same way, the improvement of the seismic response of the existing and historical buildings—especially if located in areas only nowadays classified as seismic zones—represents a challenge, both in terms of safeguarding human life and preserving heritage. Therefore, this Special Issue addresses either the aspects related to the seismic analysis, such as the different implementation's ways and the different analysis methodologies (non-linear static or non-linear dynamic analyses), or the structural solutions able to improve the seismic response of new and existing buildings. We welcome manuscripts reflecting original work on topics including, but not limited to:

- characterization of structural damage limit states;
- Surveys and monitoring to determine the existing structures conservation's state;
- advanced experimental methods for seismic performance evaluation;
- numerical models for materials and structural elements;
- improvements in seismic response;
- relevant construction techniques for seismic improvement.





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## 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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