

Buildings and Infrastructures under Natural Hazards

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Message from the Guest Editors

Dear Colleagues,

Investigating building vulnerability and risk is crucial in order to evaluate the impact of natural hazards on exposed assets within a country or region. This assessment can be performed using both numerical methods, as well as information collected via the thorough monitoring of buildings and infrastructures or thorough testing. In addition, within the topic of this ***Special Issue***, the impact of climate change on design codes is another topic which will considerably influence the construction industry in the future.

We welcome papers on the following and related topics, including (but not limited to) the following:

- The evaluation of seismic and wind vulnerability and the risk of buildings;
- The monitoring of buildings and infrastructures;
- Simulation and modelling;
- Structural testing;
- Databases of natural hazards;
- The impact of climate change on design codes;
- The collapse analysis of buildings.



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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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