

Seismic Performance and Durability of Engineering Structures

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Message from the Guest Editors

Dear Colleagues,

The seismic performance and durability of engineering structures have significant importance for humans, considering the variety of factors that they influence including safety, economy, environment, and society. The loading conditions, especially the cyclic loads, attract the attention of researchers, since the occurrences of highly devastating earthquakes in China, Chile, Japan, and other countries. Environmental actions consist of chloride ingress, sulfate attack, the freeze–thaw cycle, etc. However, the rational design and assessment for the seismic performance and durability of structures is not fully understood.

Topics of interest for this Special Issue may include, but are not limited to, the following:

- Engineering structures such as bridges, buildings, roads, dams, etc.
- Seismic performance and durability involving the design of new structures, the assessment of existing buildings, etc.
- Contributions dealing with new investigations/insights for innovative designs for the seismic performance and durability of structures, which broaden the understanding of the behavior of engineering structures, are particularly welcome.



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Special Issue

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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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