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Seismic Resilience of Structures and Infrastructure Systems

Guest Editors:

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Deadline for manuscript submissions:
closed (15 February 2025)

Message from the Guest Editors

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Innovative technologies for resilient structures and infrastructures;
- The resilience–based design and analysis of structures and infrastructures;
- Resilience evaluation methodologies for structures and infrastructures;
- An urban, regional, and national resilience assessment;
- A life-cycle resilience assessment of aging structures;
- A multi-hazard resilience analysis of structures and infrastructures;
- A resilience-based case study of special structures, systems, and networks;
- Resilience-based management for structures and infrastructures;
- A seismic risk assessment of structures and infrastructure systems;
- Resilience optimization during the post-earthquake recovery phase.

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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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