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Research on Seismic Resilience Assessment and Dynamic Response Analysis in Civil Engineering

Guest Editors:

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Deadline for manuscript submissions:
closed (20 March 2025)

Message from the Guest Editors

Seismic hazard is a potential risk to affect the safety and reliability of engineering structures in the life cycle, and seismic hazard studies have been continually developed after major seismic events. In recent years, technology development and innovation promote updates in the seismic damage assessment, seismic response analysis, repair, and strengthening method of seismic performance. In addition, with the application of new civil engineering materials and new structural systems, the earthquake codes and design methods have been rapidly improved to guide the engineering application and deal with engineering problems.

The special issue is dedicated to the recent scientific progress and technological advances in the novel studies on the seismic resilience assessment and dynamic response analysis of different types of structures.

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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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