Special Issue

Seismic Prevention and Response Analysis of Buildings

Message from the Guest Editors

Earthquakes pose a significant threat to the built environment. This Special Issue of *Buildings* seeks to advance our understanding of different techniques to improve seismic resilience in buildings. We invite contributions that delve into the latest research on seismic prevention and response analysis, encompassing topics including the following: **Structural design and analysis for seismic performance; Seismic retrofitting and rehabilitation; Performance-based seismic design and assessment; Experimental and numerical modeling; Case studies and lessons learned.** By bringing together leading experts in the field, this Special Issue aims to provide a comprehensive overview of the latest advancements in seismic engineering and contribute to the development of safer and more resilient buildings.

Guest Editors

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About the Journal

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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