Advanced Studies of Risk Resistant Building Structures

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Message from the Guest Editors

The operational performance of engineering structures may significantly affect structural safety during the full life cycle. This Special Issue, entitled "Advanced Studies of Risk-Resistant Building Structures", mainly focuses on recent advancements in structural performance, fragility and risk evaluation for structures, infrastructures, and nuclear power plants under various loads, considering uncertainties. Furthermore, novel methods or frameworks based on or using artificial intelligence are particularly encouraged for risk evaluation analysis. Authors who are experts in these fields of study are invited and encouraged to submit their contributions on the following topics to this Special Issue. The topics include, but are not limited to, the following:

- Seismic fragility analysis;
- Seismic risk analysis;
- Seismic performance;
- Risk evaluation;
- Seismic isolation;
- Non-structural components;
- Machine learning.

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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