



Improvement Technology on Building Seismic Toughness

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Message from the Guest Editors

In order to improve the seismic toughness or performance of buildings, various techniques have been developed from the perspective of material, components, and structure. In addition, structural control, which aims to reduce the vibration induced by earthquakes or other forces such as wind, is an efficient and widely used technology. The improvement of seismic toughness of buildings can also be achieved by adopting innovative and high-performance structural systems such as earthquake-resilient structures.

This Special Issue highlights improvement technologies that can improve the seismic toughness of buildings. Topics in this Special Issue may include but are not limited to:

- High-performance structural materials and smart materials in buildings;
- Structural control techniques in buildings;
- Development of earthquake-resilient structures in buildings;
- Seismic resilience assessment methodology.

For scholars interested to submit papers to the Special Issue, please click “Submit to Special Issue” or contact Astoria Yao: astoria.yao@mdpi.com.

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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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