Special Issue

Seismic Analysis and Design of Building Structures

Message from the Guest Editors

Earthquakes are one of the most severe natural disasters. They induce significant damage and even the collapse of building structures. As a result; it is crucial to accurately analyze the seismic performance of building structures. In addition; in some countries; such as China; all new building structures should be designed in consideration of the influence of earthquakes; and the criticality of seismic design should be emphasized. In all; seismic analysis and the design of building structures are a fundamental; traditional and crucial aspect of civil engineering; and are therefore worthy of investigation. This Special Issue aims to highlight the recent advances in seismic analysis and the design of building structures. Topics in this Special Issue may include; but are not limited to; the following:

- seismic analysis of building structures;
- seismic design of building structures;
- seismic performance improvement of building structures.

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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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