Special Issue

Seismic Risk Assessment and Mitigation Design of Urban Buildings

Message from the Guest Editor

Earthquake is the most terrible disaster for human being, however, seismic risk assessment is the powerful tool to reduce the earthquake damage. Seismic Risk Assessment (SRA) is to predict the probability of the building and infrastructure damage and economic losses according to potential seismic hazard, it is generally consists of two procedures: seismic hazard analyzing (SHA) and structural vulnerability assessing (SVA). In this special issue, the new methods or theories of SHA and SVA for urban building and infrastructure are encouraged to be submitted, also the new earthquake investigation. The following contents will be considered: traditional un-reinforced masonry structures , modern reinforced masonry structures, high-rise building and seismic control technique, asesimic design of urban transportation and energy system , buried pipeline system and the knowledge system for earthquake damage assessment based on artificial intelligence etc. For more information, please click on the link below: https://www.mdpi.com/journal/buildings/special_issues/F060G3K19O

Guest Editor

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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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