Special Issue

Disaster Prevention and Resilient Structures in Engineering Construction

Message from the Guest Editors

In recent years, frequent natural disasters and accidental hazards worldwide have posed serious challenges to modern engineering construction. Throughout their entire life cycle, engineering structures such as high-rise buildings, residential clusters, and transmission tower line systems are exposed to individual or concurrent environmental threats, including earthquakes, strong winds, and rainfall. In this context, the development of infrastructure disaster prevention technologies with multi-hazard resistance capabilities and the establishment of resilient structural systems with rapid post-disaster recovery are critical to addressing the multiple disaster risks posed by climate change. This Special Issue focuses on disaster prevention and resilient structures in engineering construction, emphasizing. We cordially welcome submissions on theoretical innovations, numerical simulations, experimental studies, and engineering applications that advance academic progress in structural engineering. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/H709O2QN7M

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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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