Special Issue

Resilience Analysis and Intelligent Simulation in Civil Engineering

Message from the Guest Editors

Resilience is a key factor in the post-disaster analysis and management of city, civil and infrastructure engineering, which requires handling large amounts of information and knowledge in multiple disciplines. The resilience of the city, civil and infrastructure engineering could be considered a compendium of many different tasks, material mechanics, structure failures and their processes, emergency management, and requirements, involving a great variety of factors and aspects. Thus, seismic analysis, especially the post-disaster resilience analysis and intelligent simulation, can often be an arduous and difficult operation. Meanwhile, the need for a quantitative seismic resilience analysis method is arising due to a need for disaster relief efforts, disaster prevention, and disaster mitigation. Moreover, due to the increasing uncertainty and complexity of the seismic resilience of city, civil and infrastructure engineering, great attention has been devoted to seismic resilience analysis research.

Guest Editors

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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.

Editor-in-Chief

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