



Disaster Mitigation, Risk Reduction, and Resilience Design of Engineering Structures

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Message from the Guest Editors

Disaster mitigation, risk reduction, and resilience design of engineering structures under natural hazards are topics of great interest and are important for protecting human life and reducing economic losses.....

This Special Issue is dedicated but not limited to current research on theoretical, computational, experimental, and relevant research works on advanced methods in disaster mitigation, risk reduction, and resilience design of engineering structures, including methodologies and innovations on mechanical performance evaluation; modeling technologies and simulations on failure mechanisms; methodologies on vulnerability, risk, reliability, and resilience assessment; applications on disaster mitigation and risk reduction; and advanced design methodologies of innovative on resilience design of engineering structures under earthquakes, fires, winds, and tsunamis

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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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