Special Issue

Performance Analysis and Assessment of Structures under Multi-Hazards

Message from the Guest Editors

As socioeconomic progress continues, structural design has evolved from a single, overarching goal of "ensuring life safety" to specific, multifaceted performance objectives. This shift highlights the pressing need to ensure the comprehensive defensive performance of building structures under the threat of multiple hazards. The aim of this Special Issue is to collect results and to promote discussion and developments from recent research pertaining to the performance analysis, assessment, design, and reinforcement of structures subjected to multiple hazards. This encompasses analyses for structures' resistance against progressive collapse, seismic events, fire incidents, impact scenarios, as well as enhancements in the performance of both new and existing structures. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/R44VIF70T7

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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.

Editor-in-Chief

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