Special Issue

Advances Testing and Computation Methods for Disaster Mitigation of Engineering Structures—2nd Edition

Message from the Guest Editors

The safety of engineering structures under natural hazards (e.g., earthquake, wind, fire and tsunami) is a subject of great interest to researchers and is important for protecting human life and reducing economic losses. This Special Issue is chiefly dedicated to current research on experimental, theoretical, and computational advanced methods for the mitigation of damage to engineering structures. Topics include, but are not limited to, the following: analyzing and simulating natural hazards; the damage assessment of engineering structures under natural hazards; modeling and applications of new construction materials for structural engineering; design methodologies of newly developed structural components and systems; advanced testing and modelling technologies; maintenance, repair and retrofit of existing structures; vulnerability, risk and reliability assessment of engineering structures under earthquakes, winds, fires and tsunami; and advanced methods for the evaluation and design of resistant and resilient structural systems. For more information, please click on the special issue link: https://www.mdpi.com/journal/buildings/special_issues/655L2O9P7Q

Guest Editors

Dr. Liqiang Jiang

Dr. Yi Hu

Dr. Wenwen Chen

Dr. Jie Li

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Buildings
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
buildings@mdpi.com

mdpi.com/journal/buildings

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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

Prof. Dr. David Arditi
Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

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