Special Issue

Dynamic Response Analysis of Structures Under Wind and Seismic Loads

Message from the Guest Editors

As modern structures become increasingly complex and flexible, the impact of wind and seismic loads on their structural safety and performance has become more critical. In-depth research into the dynamic response mechanisms of structures under wind and seismic loads is essential for ensuring structural safety and optimizing design. This Special Issue aims to highlight the latest research findings in this field, exploring topics such as analysis methods, influencing factors, advanced structural systems, and control measures for structural dynamic responses under wind and seismic loads, providing valuable insights for both research and engineering practice. For this reason, this Special Issue aims to disseminate and discuss the new developments and directions in this field. Therefore, we welcome research papers and review papers on various topics that present original, theoretical, empirical, experimental, methodological, and numerical analyses. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/6OHM68HFJV

Guest Editors

Dr. Junfeng Zhang

Dr. Ilaria Fiore

Dr. Ke 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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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

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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