Special Issue

New Technologies in Earthquake and Wind Engineering: Impact on Buildings

Message from the Guest Editors

This Special Issue will deal not only with new structures, but also with structural systems, construction methods, and compatible materials for the repair and strengthening of existing buildings of any type and character—for example, historic and monumental buildings. When working on the earthquake and wind safety of buildings, their content and installations should also be protected from these respective external factors. In this respect, submissions focusing on the performance of non-structural components and building contents are also welcome. New systems and methodologies for reducing the cost of building monitoring and the reduction of data will greatly help evaluate the effectiveness of these new technologies and their application. Research centered on advances in these technologies is also welcome. The reporting of case studies with the use of new technologies in any of the above topical areas concerning earthquake and wind engineering is highly encouraged. For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/buildings/special_issues/BYJ371W47O

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Deadline for manuscript submissions

closed (31 March 2025)

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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.

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