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Building Structures and Seismic Technologies

Guest Editor:

Dr. Davor Stanko
Faculty of Geotechnical Engineering, University of Zagreb, Zagreb, Croatia

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Message from the Guest Editor

Earthquakes, as a natural catastrophic event, have colossal socio-economic consequences on a local, regional and global scale, particularly when the buildings inventory is accounted for. Research activities such as the development of novel seismic technologies and methodologies, as well their applications for earthquake-resistant building structures, should be considered as one of the most important issues in the limitation of buildings' seismic vulnerability and risk. Additionally, buildings' structural resonance should not be limited only to a building structure, but also to the soil–structure interaction within the seismic monitoring of dynamic characteristics between the local site, foundation and building structures, helping to mitigate damage and improve earthquake resilience using seismic technologies.

The aim and scope of this Special Issue is dedicated to the exchange of knowledge, ideas and practice regarding recent advances in seismic technologies used for the seismic design, structural monitoring and assessment of the seismic risk of building structures.

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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

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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Contact Us

Buildings Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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buildings@mdpi.com
𝕏@Buildings_MDPI