Special Issue

Resilient Buildings Worldwide: Climate Adaptation, Risk Mitigation, and Performance

Message from the Guest Editor

This Special Issue will address the growing need for resilient buildings under escalating climate stressors and compound hazards, with a strong emphasis on measurable performance and implementable solutions. It welcomes contributions that advance the following:

- Climate adaptation in building design and retrofit (e.g., extreme heat, windstorms, drought-driven ground movement, coastal exposure, pluvial flooding);
- Multi-hazard risk assessment and performance-based engineering (including seismic, fire, and cascading failures);
- Resilient structural and envelope systems, and protective measures (including hybrid and nature-based solutions);
- Resilience-oriented operation and maintenance strategies, including monitoring, diagnostics, and decision support;
- Metrics, benchmarking, and validation approaches for resilience performance across the building lifecycle;
- Governance, standards, and policy instruments that enable scalable implementation and investment.

Guest Editor

Dr. Sérgio Lousada

Department of Civil Engineering and Geology (DECG), Faculty of Exact Sciences and Engineering (FCEE), University of Madeira (UMa), 9000-082 Funchal, Portugal

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

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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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