

Special Issue

Resilience of Built Environments to Extreme Weather Events: Management, Technology, and Human Factors

Message from the Guest Editors

Extreme weather events pose significant challenges to the built environment. Enhancing resilience requires integrating management practices, technological innovation, and understanding human behavior under risk. This Special Issue invites researchers and practitioners to explore emerging strategies for climate-responsive design, resilient infrastructure, and disaster risk management. We welcome theoretical, empirical, and interdisciplinary contributions bridging engineering, environmental science, urban planning, and social sciences. Main topics of interest include, but are not limited to:

- Resilience planning and management for extreme weather events;
- Climate-adaptive building design and resilient infrastructure systems;
- Disaster risk assessment and mitigation;
- Smart technologies and data-driven approaches for resilience;
- Human behaviour, risk perception, and evacuation decision-making during extreme events;
- Water security and sustainable water resource management;
- Resilient materials and innovative construction technologies;
- Capacity building, education, and skills for resilience in the built environment;
- Governance, policy frameworks, and community engagement for resilient cities.

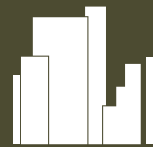
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About the Journal

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

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