Special Issue

Enhancing Building Resilience Under Climate Change

Message from the Guest Editors

In the face of the ongoing and intensifying impacts of climate change, enhancing the resilience of buildings has become a paramount concern for architects, engineers, policymakers, and communities alike. Resilient buildings can reduce the risk of damage and loss during extreme weather events, lowering insurance costs and minimizing disruptions to daily life. They can also contribute to energy savings and environmental sustainability by incorporating efficient systems and materials. Furthermore, resilient buildings can enhance the overall quality of life for occupants by providing safe, comfortable, and healthy indoor environments. This Special Issue considers a comprehensive range of topics that include the physical structure of buildings, encompassing energy efficiency, building performance simulation, water management, green spaces, and natural-based solutions. By incorporating resilient design principles and innovative technologies, we can create buildings that not only survive but also thrive in the face of climate-related hazards. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/ X8VW526VJR

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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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