Special Issue

Climate Resilient Buildings: 2nd Edition

Message from the Guest Editors

This Special Issue, the second edition of a set focusing on climate resilient buildings, emphasizes contributions related to resilient building design, more specifically, those aspects related to approaches for the retrofit of existing buildings and the design framework for new resilient buildings. Whether the design is for the retrofit of an existing building or a new building, the resilient design ought to consider the thermal comfort and health of building occupants during extreme heat events, which are expected to occur due to climate change. Hence, contributions related to this topic and where practical design approaches are presented would be valuable. The contributions should be focused on, but not limited to, the following topics:

- climate resilient buildings
- resilient design
- resilient retrofit
- overheating
- extreme climate events

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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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