

Special Issue

Impact of Climate Change on Buildings and Urban Thermal Environments

Message from the Guest Editors

We are pleased to announce the forthcoming Special Issue, "Impact of Climate Change on Buildings and Urban Thermal Environments".....The aim of this Special Issue is to delve into the multifaceted effects of climate change on buildings and the surrounding urban fabric, fostering a deeper understanding of the complexities and interdependencies between climate patterns, building design and operation, urban development, and the resulting thermal conditions..... The scope of this Special Issue encompasses, but is not confined to, the following themes:

- Climate change projections and their implications for building design, operation, and performance.
- Urban heat island effects and their exacerbation under changing climatic conditions.
- Adaptation strategies for buildings and urban areas to mitigate the impact of climate change.
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For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/207V32R380

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Deadline for manuscript submissions

closed (30 June 2024)



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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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