Special Issue

Urban Climatic Suitability Design and Risk Management

Message from the Guest Editors

Urban climate seems to comprise the outcomes of rapid urbanization, large population size and complex human behavior. Considering the emerging issues of the urban climate, this Special Issue explores advanced technologies or theories to contribute to urban climatic sustainability design and risk management. The cordially welcome high-quality papers focusing on, but not limited to, the following topics:

- Field measurement or numerical modeling of urban climate at different scales.
- Human thermal comfort and thermal safety risk assessment and management.
- Mathematical models of urban heat balance theory.
- Effects of urban morphology and underlying surface materials on urban climate.
- Climate-sensitive health risk prediction and urban design.
- Sustainability assessment of urban climate.
- Air quality modeling analysis and risk management.
- Urban flood disaster prediction and management.
- Effective management modes applied in urban governance.

For more information on the special issue, please click on the link below.
https://www.mdpi.com/journal/buildings/special_issues/4IULLJC2EQ

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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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