

Urban Climatic Suitability Design and Risk Management

Guest Editors:

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Message from the Guest Editors

Urban climate seems to comprise the outcomes of rapid urbanization, large population size and complex human behavior. In particular, urban style and the features of nature and humanity make the urban climate a unique identity with spatio-temporal characteristics. A series of environmental and energy risks created by the urban climate are continually being discovered. The excessive utilization of air conditioning and large amounts of anthropogenic heat led to prominent urban heat islands and high-temperature thermal safety issues. The accompanying energy consumption is closely associated with a high level of carbon emissions. 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..

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Special Issue

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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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