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Recent Advances in Urban Climatology: New Challenges, Methods, and Applications

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Message from the Guest Editors

Dear Colleagues,

Urban meteorological networks, along with traditional ones, that can connect with the IoT, can provide real time data and information. It is now common to have tracking systems that can give good suggestions regarding people's preferences for shaded and green areas to undertake leisure or work activities, or to have smartphone apps that can help tourists and visitors to find more pleasant outdoor spaces.

This Special Issue aims to give the scientific community the possibility to present new ideas, methods, and applications that aim to create "cool", sustainable, and healthy cities and livelihoods. We welcome papers focusing on: urban heat island mitigation; nature-based solutions to tackle climatic changes in cities; urban climate applications to adapt societies to a more rational use of energy and transport; proposals forbetter and more suitable outdoor spaces; extreme events and human health; and the climates of our neighborhoods.

Prof. Dr. António Lopes
Dr. Toshiaki Ichinose
Guest Editors

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

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