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Urban Meteorology

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Message from the Guest Editor

Urban meteorology plays a very important role in reducing possible damages from such extreme weather-related disasters in advance, to give the best timely guidance to citizens, and to optimize the efficiency of urban planning and reconstruction. Most countries and local governments do their best to attain resilience and sustainable cities by providing weather information in advance or on real-time through installation of the urban meteorological observation network and development of the urban meteorological and applied modeling.

This Special Issue aims to address the current state of available urban meteorology-related studies: Urban meteorological observation technology and/or networks (sensor networks, surface-based remote sensing instruments); urban-specific weather phenomena (heat islands, urban–rural circulation); surface energy balance and boundary-layer structure in urban areas; and meteorological modeling in urban areas.

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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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