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Challenges in Modelling and Observing Urban Environments: Recent Trends, Current Progress and Future Directions

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Deadline for manuscript submissions:
closed (15 September 2023)

Message from the Guest Editors

Dear Colleagues,

We would like to invite you to contribute to the Special Issue "Challenges in modelling and observing urban environments: recent trends, current progress and future directions", to be published in MDPI Open Access Journal *Atmosphere*.

The motivation of this Special Issue hosted by the journal *Atmosphere* is to enhance the recent outcomes in the characterization of urban environments based on different methodologies (i.e., both observational and numerical) and from different points of view. The Guest Editors encourage the submission of relevant contributions including, but not limited to, the following topics: air quality, thermo-hygrometric well-being, energy consumption, thermal stress mitigation techniques, effects of climate change, ground- and satellite-based techniques for environmental monitoring, the interaction between circulation systems at different spatial and temporal scales. Submissions concerning multidisciplinary approaches and future challenges are also welcome.

Dr. Serena Falasca
Dr. Annalisa Di Bernardino
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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