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Urban Design, Microclimate and Environment

Guest Editors:

Prof. Dr. Thomas Bartzanas
Department of Natural Resources Management and Agricultural Engineering, Agricultural University of Athens, 11855 Athens, Greece

Dr. Dafni Avgoustaki
Department of Natural Resources Management and Agricultural Engineering, Agricultural University of Athens, 11855 Athens, Greece

Deadline for manuscript submissions:
closed (1 December 2022)

Message from the Guest Editors

Dear Colleagues,

From recent studies on the global population, it is projected that by 2050 the global population will reach approx. 9.5 billion people, while 70% of the will be gathered in urban and peri-urban areas. This rapid urbanisation create problems in the urban environment leading to poor urban health while affecting the global energy, flow and balance of matter and food production.

The goals of this Special Issue are:

- To present the influence of urban morphology, urban design (e.g., streets and building geometry), landscape elements including vegetation and food production types as well as material properties and their effects on pedestrian thermal comfort in cities.
- To assess, discuss and propose solutions of green infrastructure strategies regarding urban microclimate and GHG emissions.
- To fill the scientific knowledge gap by exploring fundamental evidence-based adaptation strategies to design thermally safe cities with respect to the urban microclimate while providing thermally comfortable, safe and healthy living conditions to urban residents.

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Editor-in-Chief

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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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Contact Us

Atmosphere Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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mdpi.com/journal/atmosphere
atmosphere@mdpi.com
𝕏@Atmosphere_MDPI