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New Methods for Urban Heat Assessment and Prediction: From IoT to Remote Sensing and AI

Guest Editor:

Dr. António Saraiva Lopes
IGOT—Institute of Geography and Spatial Planning, Center of Geographical Studies, University of Lisbon, Rua Branca Edmée Marques, 1600-276 Lisboa, Portugal

Deadline for manuscript submissions:
31 May 2024

Message from the Guest Editor

Dear Colleagues,

The extensive information and numerous scientific evidence presented in the six reports of the Intergovernmental Panel on Climate Change have not transformed actions to the desired extent. The implementation of adaptive measures requires coordinated and collaborative effort from all sectors of society. Commitment from all sectors of society is also necessary to work together in implementing concrete and effective measures for mitigation and adaptation.

Within this Special Issue, researchers are called upon to submit communications from three perspectives: (i) new research methods in urban climate change, especially related to the new technologies available today (big data, IoT, remote sensing AI, climate walks, etc); (ii) case studies of good practices in the urban climate system; and (iii) studies applied to various sectors of society, for example, urban health and NBS; mobility and urban pollution; and from lessons learned from pandemics worldwide to missed opportunities. In short, this SI will cover everything that may jeopardize the Sustainable Development Goals (SDGs) in the 21st century.

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Editor-in-Chief

Prof. Dr. Ilias Kavouras
Environmental, Occupational, and Geospatial Health Sciences, CUNY School of Public Health, New York, NY 10027, USA

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, St. Alban-Anlage 66
4052 Basel, Switzerland

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