



UHI Analysis and Evaluation with Remote Sensing Data

Guest Editors:

Dr. Francesca Despini

Department of Engineering Enzo
Ferrari, University of Modena and
Reggio Emilia, Via Vivarelli 10,
41125 Modena, Italy

Dr. Sofia Costanzini

Technical Area, University of
Modena and Reggio Emilia, Via
Università 4, 41121 Modena, Italy

Deadline for manuscript
submissions:

27 September 2024

Message from the Guest Editors

Dear Colleagues,

The urban heat island (UHI) is an increasingly widespread phenomenon at a global level. This phenomenon leads to an increasing thermal discomfort of the population in the hottest periods, including increased mortality and morbidity, particularly among the weakest population such as the elderly and children. Satellite or aerial images can be used to monitor the surface temperature, to analyze and characterize urban surfaces, and to study the critical “hot” points of the urban areas. These analyses can provide useful tools for urban planners to design actions against the UHI phenomenon.

In this Special Issue, we aim to publish papers that show how remote sensing can help in the identification and analysis of urban heat islands to provide tools for mitigation and adaptation actions planning. We are interested in both large-scale studies, for example the analysis of the UHI phenomenon in large metropolitan areas, and also local studies, perhaps for small-medium-size urban areas in order to prove the presence of UHI also in this kind of territories.

Dr. Francesca Despini

Dr. Sofia Costanzini

Guest Editors





an Open Access Journal by MDPI

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!

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, Inspec, CAPlus / SciFinder, Astrophysics Data System, and other databases.

Journal Rank: CiteScore - Q2 (*Environmental Science (miscellaneous)*)

Contact Us

Atmosphere Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/atmosphere
atmosphere@mdpi.com
[X@Atmosphere_MDPI](https://twitter.com/Atmosphere_MDPI)