

Special Issue

UHI Analysis and Evaluation with Remote Sensing Data

Message from the Guest Editors

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.

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About the Journal

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!

Editor-in-Chief

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