



Satellite Remote Sensing of Urban Thermal Environment: Progresses, Challenges, and Opportunities

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Message from the Guest Editors

Dear Colleagues,

In the past several decades, the world has experienced fast urbanization, and this trend is expected to continue for decades to come. Urbanization plays an important role in the Earth system through modifying the terrestrial surfaces and atmospheric composition. Especially, urbanization changes the thermal environment in urban areas by creating the phenomenon of urban heat islands (UHI), with higher temperatures in urban areas compared to their surrounding rural areas. There is a growing need, from both the science and policy making communities, for science-based information and knowledge on the urban thermal environment and its drivers and impact from local to global scales.

Satellite remote sensing plays an irreplaceable role in understanding our urban thermal environment. With the rapid development of remote sensing technologies and algorithms, this Special Issue invites original manuscripts on the latest research and advancement in the remote sensing of the urban thermal environment.

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