Special Issue

The Impact of Urban Planning on the Urban Heat Island Effect

Message from the Guest Editors

The convergence of climate change and rapid urbanization has significantly exacerbated the urban heat island (UHI) effect, making it a critical environmental challenge for cities worldwide. The goal of this Special Issue is to collect papers in order to provide insights into the multifaceted relationships between urban planning strategies and the UHI effect, encompassing physical mechanisms, impact assessment, and approaches to mitigation. This Special Issue will welcome manuscripts that link the following themes:

- Interactions between climate change, urbanization, and UHI formation mechanisms;
- The impact of urban morphology on urban microclimate;
- Assessment methods and monitoring techniques for urban thermal environments;
- The design and implementation of green infrastructure for UHI mitigation;
- Building energy efficiency and architectural design strategies in response to UHI effects;
- Assessment methods and tools for evaluating urban planning impacts on UHI;
- Case studies of successful UHI mitigation through urban planning interventions.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Land is the only open access journal covering all aspects of land science, and it is a pioneering platform for publishing on land system science. Our editorial board is comprised of eminent scholars. We publish high quality research on societally relevant, emerging and innovative topics and results in land system research. It is now one of the top land journals with a significant impact factor, and has a goal to become the best journal in land in the coming years. I strongly recommend Land for your best research publications for a fast dissemination of your research.

Editor-in-Chief

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