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Urban Forest and Urban Microclimate

Guest Editors:

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Dr. Mohammad A Rahman

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Deadline for manuscript submissions:
closed (24 February 2023)

Message from the Guest Editors

Dear Colleagues,

Urban green addresses major urban challenges such as improving quality of life, preserving biodiversity, and adaptation to climate change. Trees as one of the main urban green components, enhance climate resilience of urban areas due to their capacity to moderate the microclimate, through cooling function which depends on evapotranspiration and shading capacity. Meanwhile, tree growth and tree vitality, which strongly affect the provision of ecosystem services, are influenced by control factors: the surrounding microclimate, built urban structure, and tree species characteristics.

We encourage topics from all fields, including experimental studies, monitoring approaches, or modeling studies, to contribute to this special issue in order to promote knowledge and adaptation strategies for improving the urban microclimate and for mitigating the negative impacts of climate change. Submissions concerning patterns and processes of microclimatic regulation through urban trees, dynamics and functions of urban trees, and the effects of micro-climate and climate change on urban tree growth and ecosystem services as well as studies on the growth patterns of urban trees.

Special Issue

Editors-in-Chief

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Message from the Editorial Board

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