

Special Issue

Nature-Based Solutions for Climate Change Adaptation and Thermal Comfort in Buildings and Urban Spaces

Message from the Guest Editors

This Special Issue will focus on the critical role of Nature-Based Solutions (NbS) in enhancing thermal comfort as a key strategy for climate change adaptation. Our main focus is to investigate and quantify how NbS improve thermal conditions at two distinct scales: within buildings (indoor) and in the adjacent urban environment (outdoor).

We invite contributions that analyze indoor thermal comfort, exploring how building-integrated NbS (such as green roofs, living walls, and green facades) directly impact building performance by reducing cooling loads, modulating indoor temperatures, and enhancing occupant well-being. The scope covers outdoor thermal comfort, including studies on how NbS that are applied to buildings and their immediate surroundings (such as vegetated surfaces, street trees, and blue infrastructure) improve microclimatic conditions in urban canyons, courtyards, and public spaces through shading, evapotranspiration, and improved airflow. Our purpose is to create a comprehensive collection of research that bridges building science with urban climatology, providing robust, evidence-based insights into designing more thermally resilient buildings and cities.

Guest Editors

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Editor-in-Chief

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