

Special Issue

Next-Generation Indoor and Outdoor Thermal Comfort in a Changing Climate

Message from the Guest Editors

Thermal comfort is a fundamental aspect of human well-being in both indoor and outdoor environments, yet climate change, urbanization, and evolving building technologies increasingly reshape how individuals experience thermal conditions. This Special Issue aims to gather cutting-edge and interdisciplinary research that advances our understanding of human–environment interactions across diverse climatic, architectural, and urban settings.

For this Special Issue, we welcome interdisciplinary contributions from building science, biometeorology, environmental psychology, architecture, urban climate, energy engineering, and related fields. We explicitly encourage contributions grounded in field measurements, controlled experiments, experimental validation, model calibration, and robust data analysis. Studies employing data-driven, machine learning, or AI-based approaches are also welcome, provided that model transparency, validation against measured data, uncertainty analysis, and robustness are clearly demonstrated. Experimental studies, field investigations, modeling efforts, interdisciplinary frameworks, and comprehensive reviews are all invited.

Guest Editors

Dr. Cihan Turhan

Dr. Canan Kandilli

Dr. Miguel Chen Austin

Dr. Samar Thapa

Deadline for manuscript submissions

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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

Dr. Daniele Contini

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