

Thermal Comfort in Built Environment: Challenges and Research Trends

Guest Editors:

Prof. Dr. Nianping Li

College of Civil Engineering,
Hunan University, 2 Lushan S Rd,
Yuelu District, Changsha 410012,
China

Dr. Yingdong He

College of Civil Engineering,
Hunan University, Changsha
410012, China

Deadline for manuscript
submissions:

closed (31 January 2024)

Message from the Guest Editors

Future development of human thermal comfort research will mostly take two paths: one is the thorough scientific understanding of the complex relationship between people and their surrounding thermal environment, not just for human comfort needs, but also with an emphasis on the implications for health; the second is the potential for technical improvement brought on by these fresh scientific discoveries, which has the potential to increase individual thermal comfort while also lowering the amount of energy needed to sustain thermal conditions in buildings.

Topics covered in this Special Issue include but are not limited to thermal comfort, health, personal comfort system, thermal environment and building energy performance. This Special Issue welcomes excellent original contributions and high-impact works, with the goal of thermal comfort research in special spaces, special populations, and special equipment.

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/

04DYW2F443



[mdpi.com/si/152308](https://www.mdpi.com/si/152308)

Special Issue

Editor-in-Chief

Prof. Dr. David Arditi

Construction Engineering and
Management Program,
Department of Civil,
Architectural, and Environmental
Engineering, Illinois Institute of
Technology, 3201 South
Dearborn Street, Chicago, IL
60616, USA

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

Journal Rank: JCR - Q2 (*Engineering, Civil*) / CiteScore - Q1 (*Architecture*)

Contact Us

Buildings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/buildings
buildings@mdpi.com
[X@Buildings_MDPI](https://twitter.com/Buildings_MDPI)