

Special Issue

Enhancing Thermal Comfort and Climate Resilience of Buildings during Extreme Events

Message from the Guest Editor

Extreme climatic events are threatening today's cities and posing crucial challenges to buildings' comfort. Together with providing resilient cooling solutions that increase the penetration and share of central and personalized cooling and heating systems to decarbonize the energy supply, it is also essential to make buildings resilient against climate variations and extremes. The risks and consequences of long-term and short extreme climate events are amplified in buildings that require strict thermal comfort conditions with vulnerable user profiles. A failure in assuring minimum thermal comfort or indoor air quality levels can propagate toward occupants' evacuations, stroke risk, or increased mortality rates inducing cascading failures. Therefore, evaluating buildings' resilience against short, long-term, and short climate change-related disruptions is vital to decrease such risks and safely prepare the newly built and existing climate-proof. This special issue aims to provide a long-lasting contribution to occupant health and comfort in buildings to strengthen interdisciplinary research and share the dynamics and cutting-edge views in the related fields mentioned above.

Guest Editor

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