

Special Issue

Development of Indoor Environment Comfort in Buildings

Message from the Guest Editors

The growing environmental concerns regarding the health of our planet and the urgent need for an energy transition towards carbon neutrality by 2050 require a comprehensive reassessment of the factors that define comfort within indoor environments. The central themes of this research will be an exhaustive historical and scientific examination of the evolving requirements for indoor comfort. By identifying and assessing the impact of various parameters, including thermal, acoustic, visual and air quality, on the perception of comfort and human well-being, this issue aims to contribute to a deeper understanding of the dynamic interplay between the built environment and its users. The volume will delineate prospective avenues for the advancement of indoor comfort, particularly in the context of integrating smart technologies, utilising innovative high-performance thermophysical building materials, deploying advanced terminal devices for optimal energy distribution and incorporating renewable energy sources.

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About the Journal

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.

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