

Special Issue

Multisensory Comfort and Human-Centered Design: The Impact of the Built Environment on Health and Well-Being

Message from the Guest Editors

The built environment plays a central role in occupational health and well-being, shaping how people perceive, inhabit, and interact with spaces. Beyond structural safety, environments influence comfort, cognition, and social interaction through sensory and ergonomic factors. Ergonomics provides the methodological foundation for aligning human abilities and task demands, while comfort emerges from the multisensory integration of light, sound, temperature, and spatial organization, supported by building technologies and innovative design methods. These dimensions affect not only work-related performance but also overall health, resilience, and inclusivity in daily life. Visual comfort and daylighting are particularly critical within this context. Adequate daylight improves task visibility and reduces glare, while also providing non-visual benefits by regulating circadian rhythms, enhancing alertness, and sustaining mood. Special Issue

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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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