Special Issue

Indoor Environmental Quality and Human Wellbeing

Message from the Guest Editor

When developing buildings with occupants' wellbeing in mind, human-factor-engineering-based indoor environment creation is an important measure to improve the living environment and implement green and high-quality development for low-carbon buildings. Given various factors exist to affect the indoor environmental quality, including the thermal environment, indoor air quality, lighting, and acoustic environments, the coupled effects and their interactions with users play an important role for building design and control, which requires handling large amounts of information and knowledge in this field. In such a case, improving our understanding of the indoor environmental quality and their relations with human comfort, health, and work efficiency is worth exploring. Respond to the "people-oriented" development concept and the carbon neutralization goal in a global context can be simultaneous.

Guest Editor

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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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