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Energy Use and Comfort of the Built Environment

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Deadline for manuscript submissions:
closed (15 January 2023)

Message from the Guest Editors

Smart building enabling technologies, such as smart metering and feedback devices, BAC systems, IoT systems, etc., could play a fundamental role in balancing built environment sustainability and habitant comfort.

This Special Issue aims to investigate energy use and comfort in the built environment, with a particular focus on:

- The effects of end-user awareness on the energy efficiency of buildings;
- The effect of occupant behaviour on energy use and comfort;
- Indoor thermal comfort and air quality in the built environment;
- The interaction between energy consumption and indoor environmental comfort;
- The role of smart technologies for the energy efficiency of buildings;
- The effect of BACS systems on the energy use of the built environment;
- The role of IoT technologies in enabling energy efficiency.

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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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