Special Issue

Advances in Green Building and Environmental Comfort

Message from the Guest Editor

This Special Issue aims to gather high-quality research and case studies that advance the understanding and application of sustainable strategies in the built environment. We welcome contributions focused on innovations in Computational Fluid Dynamics (CFD) applications for urban- and building-scale analysis, building energy simulation, indoor environmental quality (IEQ) assessment, and total building performance evaluation. Emphasis is also placed on sustainable energy management, green development, and the integration of digital technologies such as Building Information Modelling (BIM) and smart systems in building design and operation. We encourage multidisciplinary submissions that bridge engineering principles with real-world practice to support low-carbon, high-performance, and human-centric environments. Topics may include, but are not limited to, thermal comfort, ventilation performance, daylighting, energy efficiency, and digitalisation in planning and operations. This Special Issue provides a platform for sharing cutting-edge methodologies, tools, and technologies that shape the future of green buildings and sustainable urban living.

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.

Editor-in-Chief

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