Special Issue

Recent Advances in Intelligent Applications of Well-Being Spaces Design and Engineering

Message from the Guest Editors

This Special Issue aims to reflect the current state of the art and new developments in the application of artificial intelligence, machine learning, and data-driven applications for air quality, water quality, thermal comfort, solar radiation, energy planning and policy, and other topics relevant to well-being spaces. This Special Issue will provide a comprehensive and interdisciplinary avenue for researchers, experts, and engineers to publish their latest findings. We welcome original research articles, case studies, and reviews focusing on, but not limited to, the following topics:

- Artificial intelligence as applied to well-being spaces;
- Indoor/outdoor building environmental assessment and simulation;
- Healthy and comfortable built environments;
- Green buildings and sustainable systems based on computer science;
- Advances in modelling and simulation tools;
- Data mining in well-being space datasets;
- Machine learning applications for energy management;
- Predictive maintenance and assessment;
- Renewable energy applications;
- Modeling in health, productivity, and well-being related to the built environment.

Guest Editors

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Deadline for manuscript submissions

30 October 2025

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/223266

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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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