Special Issue

Development of Smart Cities and Living Environment: Energy Saving, Comfort, Sustainability

Message from the Guest Editors

As climate patterns shift rapidly, improving building energy efficiency has become a critical global priority. Technologies for optimizing energy operations and integrating renewable energy sources within buildings are advancing steadily. However, climate change does not create entirely new weather conditions, but rather causes existing climates to migrate geographically—turning temperate zones into subtropical ones, for example. This highlights the importance of proactive research that anticipates future climate conditions, rather than focusing solely on current local climates. This Special Issue aims to explore innovative approaches in developing smart cities and sustainable living environments. In particular, we focus on energy-saving technologies, occupant comfort, safety, and climate resilience. Contributions that address AI-driven predictive control, digital twin applications for city-scale energy optimization, and the integration of renewable energy into urban systems are welcome. This includes both original research and review articles. We look forward to your valuable contributions.

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Deadline for manuscript submissions

28 February 2026

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/247458

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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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