

## Special Issue

# Sustainable Energy Transitions in Buildings and Cities: Insights from Data Analytics

### Message from the Guest Editors

This Special Issue aims to uncover how data-driven approaches can optimize energy use, improve resource management, reduce carbon footprints, and enhance overall energy efficiency. Special attention will be given to the application of generative AI in energy system design, predictive analytics for building performance, and the real-time optimization of energy consumption in urban infrastructures. We invite scholars, engineers, and practitioners to submit papers that address, but are not limited to, the following themes:

- Data analytics applications for energy-efficient building design and operation;
- The role of big data and machine learning in optimizing energy consumption in cities;
- Generative AI techniques for smart energy systems and predictive modeling in buildings;
- Sustainable urban planning through data-driven energy solutions;
- The integration of renewable energy technologies and smart grids in urban environments.

We welcome high-quality submissions that explore new methodologies, case studies, and theoretical advancements in these areas, with an emphasis on practical, actionable insights that can help cities and buildings achieve energy sustainability goals.

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### Guest Editors

Prof. Dr. Lamine Mahdjoubi

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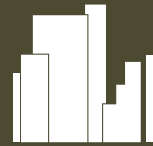
Dr. Arslan Muhammad

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### Deadline for manuscript submissions

20 August 2026



## Buildings

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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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### Editor-in-Chief

Prof. Dr. David Arditi

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### Author Benefits

#### High Visibility:

indexed within SCIE (Web of Science), Scopus, Ei Compendex, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Construction and Building Technology) /  
CiteScore - Q1 (Architecture)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).