Special Issue

Artificial Intelligence in Energy Efficient Buildings

Message from the Guest Editors

We encourage researchers to contribute to this Special Issue entitled “Artificial Intelligence in Energy-Efficient Buildings” by considering novel methods and applications using either digital (e.g., building performance simulation) or empirical (e.g., real-time monitoring) data in areas including, but not limited to:

- AI methods for swift and accurate energy performance evaluation in the conceptual design and building operation phases.
- Machine learning for predicting building energy consumption (heating, cooling, lighting, HVAC).
- Deep learning for building operation and occupancy behaviour.
- Building energy optimisation with surrogate modelling.
- Improving energy efficiency via building-integrated photovoltaics using machine learning and optimisation algorithms.
- AI in the performative design of buildings.
- AI tools, techniques, and methods in computational form-finding strategies.
- AI in the performance of smart and liveable cities.

Guest Editors

Dr. Berk Ekici

Prof. Dr. I. Sevil Sariyildiz

Prof. Dr. Z. Tuğçe Kazanasmaz

Prof. Dr. Gülden Gökçen Akkurt

Deadline for manuscript submissions

closed (31 August 2024)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/143092

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/journal/energies

About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

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

Journal Rank:

CiteScore - Q1 (Control and Optimization)

MDPI