

Special Issue

The Effects of Predictive Control on Energy Performance of Buildings

Message from the Guest Editors

Buildings represent a significant proportion of worldwide energy use and equally contribute to greenhouse gas emissions. The energy performance of buildings is affected by both the advanced design of buildings and their systems as well as intelligent utilization of the occupied spaces with advanced control systems. Intelligent operation includes both predictive and real-time controls for the operation of building systems (heating and cooling, ventilation, lighting, indoor air quality, operation of the auxiliary systems, etc.). In this Special Issue, we seek papers summarizing novel research in the design of hardware and software systems that optimize building energy performance while improving indoor ambient quality, occupant productivity, and occupant health.

Guest Editors

Prof. Dr. Hashem Akbari

Department of Building Civil and Environmental Engineering, Concordia University, Montreal, QC, Canada

Dr. Farhad Mofidi

Department of Built Environments & Sustainable Design Innovations, University of Tehran, Tehran 16844, Iran

Deadline for manuscript submissions

closed (10 May 2022)



Energies

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.2



mdpi.com/si/78040

Energies

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

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.2



[mdpi.com/journal/
energies](https://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)