Special Issue

Application of Machine Learning Tools for Energy System

Message from the Guest Editor

Currently, artificial intelligence surrounds us at every step. Its application is increasing not only in traditional application areas, but also in newer areas. An energy system can be a combination of mechanical, chemical, and electrical features, and it can cover various dimensions of energy types that include renewables and other alternative energy systems as well. As the demand for energy continues to increase, smart energy systems are becoming more prevalent in addressing the challenges associated with energy generation, distribution, and consumption. Artificial intelligence and machine learning have been identified as promising approaches to address these challenges as they improve the efficiency, reliability, and sustainability of smart energy systems. The main goal of this Special Issue is to bring together the latest research and developments in the areas of artificial intelligence and machine learning for smart energy systems. Original research articles, review papers, and case studies that demonstrate innovative applications of artificial intelligence and machine learning in energy systems are welcome.

Guest Editor

Dr. Sara Carcangiu
Electrical and Electronic Engineering Department, University of Cagliari, Via Marengo 2, 09123 Cagliari, Italy

Deadline for manuscript submissions

15 September 2025

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/195628

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)