# Special Issue

# Machine Learning and Data Based Optimization for Smart Energy Systems

### Message from the Guest Editor

This *Special Issue* aims to collect, compare, and assess novel machine learning and data science techniques that can be used to address smart energy system challenges. Topics of interest for publication include but are not limited to:

- Presentation of machine learning- and artificial intelligence-derived control strategies for smart energy systems.
- Data-analytics-derived methods for the sizing and layout of components in smart energy systems.
- Statistical analysis of prediction errors and data-based learning techniques for the stochastic optimization of electrical power dispatch with storage.
- Verification of new modelling approaches through field tests or assessments compared to traditional computational approaches (e.g., heuristics, linear and non-linear optimization).
- Assessment of the accuracy and computational speed of competing algorithms, computational frameworks, and solution techniques.

### Guest Editor

Prof. Dr. Holger Hesse

Kempten University of Applied Sciences, 87435 Kempten, Germany
Electrical Engineering, Technical University of Munich, 80333 Munich, Germany

### Deadline for manuscript submissions

closed (6 November 2023)

**Energies**

**an Open Access Journal by MDPI**

**Impact Factor 3.2**
**CiteScore 7.3**

mdpi.com/si/118873

*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