Special Issue

Intelligent Concepts for the Modelling, Optimization and Control of Smart Energy Systems

Message from the Guest Editor

Energy systems are becoming more integrated and complex as a result of the low carbon transition of the economy, demanding new and intelligent concepts and methods to model, control and optimize the whole system from a holistic approach. This Special Issue calls for papers to showcase the latest progress in this area, with a focus on machine learning/AI approaches to energy system monitoring, modeling, control and management. Research papers exploring innovative applications in the decarbonization of different key sectors are particularly welcomed.

- intelligent concepts
- sector decarbonization
- distributed intelligence
- physics-informed deep neural networks
- microgrids
- smart grids

Guest Editor

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Deadline for manuscript submissions

closed (20 June 2025)

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/202003

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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.

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