Special Issue

Intelligent Energy Management Systems for Smart Grids: Algorithms, Optimization, and Control

Message from the Guest Editor

This Special Issue will present the latest research methods, system developments, and technologies relating to intelligent energy management systems and their implementations within smart grids and community applications. Topics of interest include, but are not limited to, the following:

- Applied AI techniques for smart energy systems;
- Hybrid energy systems' design, modelling, simulation, control, integration, planning, and management;
- Applied AI for energy policies;
- Hydrogen process technologies and infrastructure;
- Carbon capturing and storage technologies;
- Applied quantum AI and quantum energy;
- Intelligent energy management systems;
- Smart energy–water systems;
- Smart energy for clean transportation;
- Smart waste-to-energy process technologies;
- Interconnected infrastructure;
- Smart electronics.

Contributions from researchers, students, and professionals are welcomed to facilitate the discussion on state-of-the-art research and developments in these areas and to reflect potential implementations and projects in urban, remote, and waterfront communities, as well as industrial applications.

Guest Editor

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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.

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