



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

Guest Editor:

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Deadline for manuscript submissions:

31 January 2025

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.





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Message from the Editor-in-Chief

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Journal Rank: CiteScore - Q1 (Control and Optimization)

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