Special Issue

Advances in Artificial Intelligence for Energy Management and Smart Energy Systems

Message from the Guest Editors

As we move toward decentralized energy systems, balancing supply and demand with AI-driven algorithms is essential. This Special Issue explores how AI can boost energy efficiency, optimize renewable energy, enhance demand response, and support smarter decision-making. AI's ability to process large volumes of data and make real-time decisions opens exciting possibilities for more sustainable energy systems. We invite you to submit research on the latest AI advancements in energy management and smart system optimization, contributing to a sustainable and resilient energy future. This Special Issue highlights AI's role in enhancing energy efficiency, grid management, and the integration of renewable energy and storage systems. It aligns with MDPI's *Energies* mission to advance research in renewable energy, sustainable technologies, and energy system transformation. The collection will feature AI methods addressing energy challenges, with a focus on smart grids, including residential, commercial, city grids, renewable energy, EV charging, microgrids, industrial, and agricultural grids.

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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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