

Special Issue

Forecasting Electricity Demand Using AI and Machine Learning

Message from the Guest Editors

This Special Issue aims to present recent advances in AI- and ML-based electricity demand forecasting, with a focus on methodological innovation, model evaluation, and real-world application. It seeks original research and submitted articles that address forecasting challenges across a range of temporal and spatial scales, from short-term operational forecasting to medium- and long-term planning. We welcome contributions that demonstrate improvements in forecasting accuracy, robustness, interpretability, or computational performance, as well as studies that examine how AI-based demand forecasting supports power system operation, market design, and the broader energy transition.

Guest Editors

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Dr. Daniil Hulak
Prof. Dr. Chun Sing Lai

Deadline for manuscript submissions

30 August 2026



Energies

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CiteScore 8.3



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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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