Special Issue

Energy Forecasting in the Era of Smart Urbanization

Message from the Guest Editors

The increased pace of urbanization, combined with rapid advancements in renewable energy and the transition towards electrified vehicles and smart infrastructure, has created numerous challenges in managing modern energy systems. Accurate energy loads and generation forecasting are crucial to ensure reliability and stability in sustainable smart city environments. This Special Issue aims to present and discuss the most recent advances in energy forecasting for smart urban environments, bringing together contributions from academia and industry that explore both theoretical and applied aspects. Topics of interest for publication include, but are not limited to, the following:

- Energy load forecasting in urban environments (electricity, heating, cooling, etc.).
- Renewable energy generation forecasting in smart infrastructure (solar, wind, and hybrid).
- Machine and deep learning modeling for energy time series prediction.
- Explainable AI and interpretable forecasting approaches.
- Foundation models.
- Electric vehicle charging demand prediction.
- Energy market forecasting.
- Non-intrusive load/generation monitoring.
- Benchmarking frameworks and reproducible forecasting studies.

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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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