

Special Issue

Intelligent Energy Forecasting Solutions: Machine Learning Driving Renewable Energy Advancements

Message from the Guest Editors

Renewable energy plays a vital role in mitigating climate change and achieving a sustainable energy future. Accurate renewable energy forecasting is essential for optimal integration into the grid and maximizing energy utilization. Machine learning (ML) enhances forecasting precision by leveraging historical data, real-time analytics, and advanced algorithms. ML-driven renewable energy forecasting solutions not only ensure grid stability and efficient resource management but also accelerate the transition to clean energy sources, fostering a greener and more resilient planet. The special issue welcomes original research, case studies, and reviews on topics, but are not limited to:

- ML and optimization models for renewable energy forecasting.
- Data analytics and visualization for renewable energy systems.
- Challenges and opportunities for ML in renewable energy.
- Explainable AI for renewable energy forecasting.

For more information on the Special Issue, please visit LINK https://www.mdpi.com/journal/applsci/special_issues/T5G3U361F1

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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