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 ensures grid stability and efficient resource management but also accelerates 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

Guest Editors

Dr. Waddah Saeed

School of Computer Science and Informatics, De Montfort University, Leicester LE1 9BH, UK

Prof. Dr. Rozaida Ghazali

Faculty of Computer Science and Information Technology, Universiti Tun Hussein Onn Malaysia, Batu Pahat 86400, Johor, Malaysia

Deadline for manuscript submissions

closed (10 August 2024)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/182587

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

About the Journal

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

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)