

Special Issue

Solar and Wind Forecasting and Assessment

Message from the Guest Editor

The higher penetration of renewable resources in the energy portfolios of several communities accentuates the need for accurate forecasting of variable resources (solar, wind, tidal) at several different temporal scales in order to achieve power grid balance. Solar generation technologies have experienced strong energy market growth in the past few years, with corresponding increases in local grid penetration rates. As is the case with wind, the solar resource at ground level is highly variable mostly due to cloud cover variability, atmospheric aerosol levels, and indirectly and to a lesser extent, participating gases in the atmosphere. Therefore, the aim of this Special Issue is to solicit original and high-quality research articles related to the aforementioned topics. In particular, topics of interest include but are not limited to:

- Mathematical-based solar and wind forecasting and assessment models;
- AI-driven approaches for solar and wind forecasting;
- Assessment of newly developed approaches for solar and wind forecasting;
- Advanced machine learning tools for solar and wind systems forecasting and evaluation.

Guest Editor

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Deadline for manuscript submissions

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About the Journal

Message from the Editor-in-Chief

The new open access journal *Forecasting* provides an interdisciplinary forum for all aspects related to the immensely broad field of time series analysis and forecasting. The range of applications in forecasting is enormous, from energy forecasting or economic analysis of stock indices prediction, climate forecasting, chemical or natural process forecasting, etc. It is the aim of the journal to publish relevant topical contributions for the scientific community of forecasting in a timely manner. We would like to invite you to contribute to the journal by sending us your high quality research papers and would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Sonia Leva

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Author Benefits

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 22.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).