

Special Issue

Advanced Methods for Renewable Energy Forecasting

Message from the Guest Editor

Prediction is a crucial procedure applied in many fields for the optimal management of assets and resources. Energy commodities are a vital element of human activities. They are optimally planned and managed by policymakers through a prediction process that includes the availability of natural resources and other relevant socio-economic parameters and indices. The environmental problems related to coal, oil, and natural gas exploitation for power generation motivate policymakers to modify the energy mix to increase the portion of the energy produced from clean sources. The transition to an environmentally-friendly power system also relies on a forecasting process applied on different ranges from hours to years. This special issue aims to collect state-of-the-art prediction techniques and studies mainly based on deep learning and artificial intelligence and assess their implementation for planning and managing renewable power systems, energy stocks and markets, and natural resource assessment. In addition to deep learning algorithms, other methodologies based on statistical analysis and physical methods supported by weather information are also welcomed.

Guest Editor

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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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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).