



## Predictive Intelligence with Machine Learning Techniques for Complex Forecasting

Guest Editors:

### Dr. Walayat Hussain

Information Systems and  
Business Intelligence, Peter Faber  
Business School, Australian  
Catholic University, Sydney, NSW,  
Australia

### Dr. Asma Alkalbani

Information Technology  
Department, College of Applied  
Sciences, University of  
Technology and Applied  
Sciences, P.O.Box 14, Postal  
Code 516, Ibri, Oman

### Prof. Dr. Honghao Gao

School of Computer Science and  
Engineering, Shanghai Unvisrity,  
Shanghai, China

Deadline for manuscript  
submissions:

**closed (30 September 2022)**

### Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to investigate the use of machine learning (ML) techniques for forecasting as an alternative to the traditional techniques. Forecasting is an essential element of decision making in various fields, including (but not limited to) manufacturing, energy, supply chain management, and the environment. Forecasting is also widely practiced by businesses and organizations, as it helps them to plan for their needs and remain competitive in the market, and forecasting is considered to be essential to setting strategies, resource requirements, future activities, etc. Recently, the big data revolution has influenced researchers to pay attention to the use of big data to improve the forecasting process, resulting in the development of forecasting methods and techniques. Traditional time series prediction methods are unable to handle the complex nonlinear relationship of a large data set.

Dr. Walayat Hussain

Dr. Asma Alkalbani

Prof. Dr. Honghao Gao

*Guest Editors*





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Sonia Leva**  
Department of Energy,  
Politecnico di Milano, 20156  
Milan, Italy

## 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.

## Author Benefits

**Open Access:** free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility:** indexed within [Scopus](#), [ESCI \(Web of Science\)](#), [AGRIS](#), [RePEc](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (*Multidisciplinary Sciences*) / CiteScore - Q1 (Decision Sciences (miscellaneous))

## Contact Us

---

Forecasting Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/forecasting](http://mdpi.com/journal/forecasting)  
[forecasting@mdpi.com](mailto:forecasting@mdpi.com)  
[X@forecast\\_MDPI](https://twitter.com/forecast_MDPI)