

Special Issue

Recent Advances in Data Mining for Industrial Engineering Applications

Message from the Guest Editor

With the rapid development of big data and machine learning technologies, the field of industrial engineering is undergoing a digital revolution. The advancement of Industry 4.0 has made data mining methods a powerful tool for industrial engineers, enabling them to optimize production processes, enhance quality, reduce costs, and increase competitiveness. We particularly welcome submissions on the following topics (but they are not limited to):

- The application of data mining in the manufacturing industry, including production process monitoring, quality control, and supply chain management;
- Data analysis methods for industrial forecasting and predictive maintenance;
- The application of data mining in energy management and environmental protection;
- Intelligent decision support systems in industrial engineering;
- The use of data mining in the context of the Internet of Things (IoT);
- Machine learning algorithms and models in industrial engineering.

Keyword: Industry 4.0; deep learning; decision making; forecasting and predictive maintenance; production and marketing

Guest Editor

Prof. Dr. Long-Sheng Chen

Department of Information Management, Chaoyang University of Technology, Taichung 413310, Taiwan

Deadline for manuscript submissions

closed (30 June 2025)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/189775

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

[mdpi.com/journal/
appls-ci](https://mdpi.com/journal/appls-ci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



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, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

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