

Special Issue

Research on Intelligent Fault Diagnosis Based on Neural Network

Message from the Guest Editors

This Special Issue on “Research on Intelligent Fault Diagnosis Based on Neural Network” aims to further advance intelligent fault diagnosis methods based on neural network technology and address existing problems in this field. Topics of interest include, but are not limited to, the following:

- Intelligent algorithms for fault detection, isolation, and estimation;
- Explainable learning for fault diagnosis;
- Transferable learning for fault diagnosis;
- Physics-enhanced machine learning for fault diagnosis;
- Deep generative model-based fault diagnosis;
- Knowledge-enhanced machine learning for fault diagnosis;
- Real-time machine learning for fault diagnosis;
- Applications of neural network-based intelligent fault diagnosis methods;
- Fault-tolerant control;
- Remaining useful life prediction;
- Intelligent maintenance strategies;
- Other related topics.

Guest Editors

Dr. Yanyan Hu

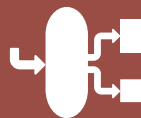
School of Intelligence Science and Technology, University of Science and Technology Beijing, Beijing 100083, China

Prof. Dr. Lifeng Wu

College of Information Engineering, Capital Normal University, Beijing 100048, China

Deadline for manuscript submissions

closed (1 February 2025)



Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



mdpi.com/si/212201

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

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





Processes

an Open Access Journal
by MDPI

Impact Factor 2.8
CiteScore 5.5



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



About the Journal

Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, 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, AGRIS, and other databases.

Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))