

## Special Issue

# Data Science in Prognostics and Health Management of Industrial Equipment

### Message from the Guest Editors

This Special Issue welcomes all research dedicated to solving problems related to the field of PHM. We believe that your research can contribute valuable insights to PHM, whether in algorithms/methods, frameworks, or applications. The scopes of this Special Issue included but are not limited to the following:

- Big Data Analytics for Industrial PHM;
- Internet of Things (IoT) and Sensor Data Fusion in PHM;
- Large Language Models (LLMs) for Industrial PHM;
- Explainable Artificial Intelligence in PHM;
- Digital Twins for Industrial Equipment Maintenance;
- Reliability or Trustworthy PHM in Practical Industry;
- Uncertainty Quantification for Data-Driven PHM Methods;
- Federated Learning or Edge Computing for Real-Time PHM;
- Advanced Signal Processing Methods for Industrial PHM;
- Real-World Case Studies and Applications of PHM.

### Guest Editors

Dr. Ruyi Huang

Dr. Xi Zhang

Dr. Jianguo Miao

### Deadline for manuscript submissions

15 August 2025



## Electronics

an Open Access Journal  
by MDPI

Impact Factor 2.6  
CiteScore 5.3



[mdpi.com/si/208804](https://mdpi.com/si/208804)

*Electronics*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[electronics@mdpi.com](mailto:electronics@mdpi.com)

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





# Electronics

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.6  
CiteScore 5.3



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



## About the Journal

### Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

---

### Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di  
Torino, 10129 Torino, Italy

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), CAPus /  
SciFinder, Inspec, Ei Compendex and other databases.

#### Journal Rank:

JCR - Q2 (Physics, Applied) / CiteScore - Q2 (Control and  
Systems Engineering)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is  
provided to authors approximately 16.4 days after  
submission; acceptance to publication is undertaken in 2.4  
days (median values for papers published in this journal in  
the second half of 2024).