

## Special Issue

# Research and Applications on Advanced Digital Solutions for Fluid Machinery

### Message from the Guest Editors

In the era of Industry 5.0, advanced digital solutions are revolutionizing the research, development, design, production and operation and maintenance of fluid machinery via the integration of IoT, AI, machine learning, digital twins, advanced control systems, AR/VR, supply chain and cloud computing. These technologies now play an essential role in enhancing the performance, reliability and sustainability of fluid machinery across industries. In order to promote academic exchange and scientific and technological progress, we are pleased to invite you to share your latest findings regarding the research and application of digitization solutions for advanced fluid machinery.

---

### Guest Editors

Dr. Xingxing Huang

Prof. Dr. Xavier Escaler

Dr. Yonggang Lu

---

### Deadline for manuscript submissions

30 September 2025



## Machines

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.7



[mdpi.com/si/207582](https://mdpi.com/si/207582)

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

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





# Machines

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 4.7



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



## About the Journal

### Message from the Editor-in-Chief

*Machines* is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications. Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided. There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

---

### Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso  
CISE - Electromechatronic Systems Research Centre, University of  
Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Mechanical) / CiteScore - Q1  
(Control and Optimization)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).