

# Special Issue

## Applications of AI and Digital Twinning in Electric Machines

### Message from the Guest Editor

The Special Issue, "Applications of AI and Digital Twinning in Electric Machines" hosted by MDPI *Machines*, aims to showcase cutting-edge research and innovative applications of artificial intelligence (AI) and digital twinning in the field of electric machines. We are seeking contributions that explore the synergistic use of AI and digital twin technology in electric machines.

Topics of interest include, but are not limited to:

- AI-driven predictive maintenance for electric machines;
- Design optimization and performance enhancement through digital twin modeling;
- AI-based fault detection and diagnosis in electric machines;
- Advanced control strategies using AI for electric machines;
- Energy efficiency improvement and resource management in electric machines through AI.

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### Guest Editor

Dr. Farzad Ferdowsi

Department of Electrical and Computer Engineering, University of Louisiana at Lafayette, Lafayette, LA, USA

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### Deadline for manuscript submissions

closed (15 November 2024)



## Machines

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CiteScore 4.7



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## 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.

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### 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

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### Author Benefits

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#### Journal Rank:

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

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the second half of 2025).