

## Special Issue

# Research in Design and Analysis of Permanent Magnet Synchronous Machines

### Message from the Guest Editors

Electric machines are the most important electromagnetic energy converters. The permanent magnet machine exhibits high torque density and high efficiency and has been extensively researched and developed. This Special Issue explores all novel aspects of PMSMs, especially in terms of modeling, design, optimization, numerical methods, and experimental validation. The applications are mainly focused on electric propulsion and renewable energy generation systems. We welcome original research articles as well as reviews for this Special Issue. The following topics are of particular interest:

- Novel topologies of PMSMs;
- Multi-physics design and modeling of PMSMs;
- High power density/high efficiency/high reliability design of PMSMs;
- Fault analysis and fault tolerance design of PMSMs;
- An application of artificial intelligence to the design of PMSMs

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### Guest Editors

Dr. Reza Yazdanpanah  
Dr. David Campos-Gaona  
Prof. Dr. Olimpo Anaya-Lara

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### Deadline for manuscript submissions

closed (31 October 2025)



## Machines

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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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