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

Guest Editors

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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