



New Trends of Permanent Magnet Machines

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Message from the Guest Editors

Permanent magnet machines are widely used in different applications, and they are the preferred topologies in applications such as automotive, aerospace, and wind energy. They offer the benefits of high torque, simple structure, reliable operation, small size, light weight, low loss, high efficiency, and the appearance and size of the motor can be flexible and changeable. With the development of electronic technology and control technology, permanent magnet machines will develop and be perfected in the direction of high efficiency and energy saving, mechatronics, high performance, special motors, and light weight.

This Special Issue focuses on recent trends in permanent magnet machines, including design, modeling, optimization, and control.

Topics of interest for publication include but are not limited to:

1. Modeling, analysis, and design for PM machines;
2. Advanced control algorithms;
3. Innovative design and analysis of IPM and SPM;
4. Analysis, design, and control of new FSPM;
5. New structure and topology for PM machines;
6. Fault diagnosis and fault tolerance in PM machines.





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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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