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Design and Optimization of High Power/Torque Density Permanent Magnet Machines

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Message from the Guest Editors

Dear Colleagues,

Electrical machines have long been regarded as the backbone of industry. Due to the sheer number of PM machines that will be employed in the coming decades, even a modest increase in their power density and efficiency achieved through novel design and optimization will bring significant benefits to our society.

This Special Issue aims to provide a forum for researchers from both academia and industry to exchange their recent achievements within the scope of PM machine topologies, novel design and optimization approaches, novel machine topologies, multiphysics modelling, and the application of PM machines. Detailed topics include but are not limited to:

- Novel PM machine and actuator topologies;
- Machine design and optimization;
- Machine performance analysis;
- Analytical and numerical modelling;
- Coupled multiphysics analysis;
- Advanced thermal management of PM machines;
- Fault modelling and diagnostics of fault-tolerant PM machines;
- Other issues such as NVH in PM machines.



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Special Issue



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Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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