Special Issue

Emerging Processes in the Design, Modeling, Application and Control of Permanent Magnet Electrical Machines

Message from the Guest Editor

In this context, this Special Issue aims to present and disseminate the most recent advances and future perspectives related to the theory, design, modeling, application and control in PM electrical machine technology. Topics of interest include, but are not limited to, the following:

- New materials and winding design methods for both traditional and new PM electric machines;
- Development of multiphase PM motors;
- Efficiency measurement of PM electric motor drives;
- Innovative control algorithms for PM motor control;
- Simulation tools, modeling, and analysis of traditional and new PM electric motors;
- Novel PM machine topologies;
- High-torque-density designs and applications;
- Multi-objective optimization techniques for performance improvement;
- Thermal modeling and management strategies for PM machines;
- Loss minimization techniques for higher efficiency;
- Cooling technologies and thermal enhancement designs.

Guest Editor

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Deadline for manuscript submissions

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Editor-in-Chief

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