



## Designs and Control of Electrical Machines and Drives

Guest Editors:

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Deadline for manuscript  
submissions:

**closed (29 August 2025)**

### Message from the Guest Editors

Dear Colleagues,

Advanced electrical machines and their systems are of great significance for achieving zero-carbon emission. This Special Issue is dedicated to providing a platform for researchers to share their research and advancements in the design and control of electrical machines and drives, as well as to contribute to ongoing progress in this dynamic field.

In this Special Issue, original research articles and reviews are welcome. Topics of interest for publication include, but are not limited to, the following:

- Electrical machine topology innovation;
- Axial-flux electrical machines;
- Bearingless electrical machines;
- Thermal management and modeling;
- Loss and efficiency;
- Insulation and aging;
- Optimization design;
- Vibration and noise;
- Advanced materials;
- Applications of AI;
- Advanced control strategies of motor drives;
- Model predictive control;
- Sensorless control;
- Multi-phase electrical machines and drives;
- Fault diagnosis and fault tolerance.





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## Message from the Editor-in-Chief

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