

Special Issue

Advanced Control and Optimization of Electric Drive Systems

Message from the Guest Editors

This Special Issue, titled “**Advanced Control and Optimization of Electric Drive Systems**”, aims to present a collection of cutting-edge research and comprehensive reviews on novel control theories and their practical applications in modern electric drives. Topics include, but are not limited to, theoretical developments and/or experimental validations in the following areas:

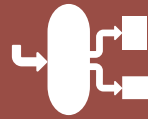
- Sensorless control of induction motors;
- Advanced control of open-winding motor drives;
- Model predictive control of permanent magnet synchronous motors;
- Vibration and noise suppression in electric machines;
- Flux-weakening control for extended speed operation;
- Multi-phase motor control and modulation strategies;
- Advanced modulation and control for multi-level converters;
- High-fidelity modeling and parameter identification for control;
- AI-enhanced and data-driven control techniques for electric drives;
- Thermal management and loss optimization through control;
- Fault-tolerant control strategies for improved system reliability.

Guest Editors

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Deadline for manuscript submissions

30 June 2026



Processes

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