

Special Issue

Motor Drive Systems: Control Technology, Fault Diagnosis and Fault Tolerance

Message from the Guest Editors

In recent years, motor drive systems have become increasingly important in various industrial and commercial applications. These systems are used in a broad range of applications, including electric vehicles, robots, aircraft, and renewable energy systems. As the complexity of these systems increases, the need for effective control technology, fault diagnosis, and fault-tolerance strategies has also grown. This Special Issue, entitled “Motor Drive Systems: Control Technology, Fault Diagnosis and Fault Tolerance,” seeks high-quality studies focusing on the most recent advances in control technology for high-fault-tolerance drive systems.

Topics for motor drive systems include, but are not limited to, the following:

- Advanced control strategies, such as sensorless control, model predictive control, and adaptive control;
- Fault diagnosis techniques, including signal processing, machine learning, and artificial intelligence approaches;
- Fault-tolerance strategies, such as redundancy, fault-tolerant control, and reconfiguration;
- Integrated design and optimization of motor drive systems, including motors, power electronics, and control systems.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2025)



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