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

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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.

Special Issue

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Message from the Editor-in-Chief

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