

Special Issue

Fault Diagnosis and Condition Monitoring of Electrical Machines and Drives

Message from the Guest Editors

With the rapid development of electric transportation, intelligent manufacturing, and energy technologies, the demand for high-reliability electrical machine systems in critical application scenarios has become increasingly prominent. Reducing maintenance costs and preventing unscheduled downtimes, which cause production and economic losses, are a priority for manufacturers and operators. The correct diagnosis and early detection of incipient faults lead to reduced maintenance costs and downtime for the process under consideration, and, in many cases, also prevent harmful and sometimes disruptive failures. Moreover, the comprehension of the fault occurrence conditions and the fault detection and location are the foundation for the study of effective fault-tolerant techniques. Topics include, but are not limited to, the following research areas:

- Simulation techniques, algorithms, or other tools for modeling and simulation;
- Innovative sensors and their applications in motor systems;
- Intelligent sensing technologies and multi-source information fusion for electrical machine systems;
- Advanced fault diagnosis and condition monitoring methods.

Guest Editors

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