

Special Issue

Reliability and Fault Tolerant Control of Electric Machines

Message from the Guest Editors

Electric machines play a critical role in modern energy conversion systems. As these systems become increasingly complex and integrated, ensuring their reliability and fault tolerance has become a key research and engineering challenge. This Special Issue aims to present the latest advances, methodologies, and applications that enhance system dependability under faulty operating conditions. Topics of interest include fault detection and diagnosis, fault-tolerant control strategies, condition monitoring, and predictive maintenance using advanced sensing, signal processing, and machine learning techniques. Contributions addressing modeling and simulation of electrical faults, hardware-in-the-loop testing, and resilience-oriented design are also encouraged. This Special Issue seeks to bridge the gap between theory and industrial implementation, promoting safer, smarter, and more sustainable electric drive systems. Researchers and practitioners are invited to submit original research papers and review articles that contribute to improving the reliability and robustness of electric machines and their associated control systems.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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