

Special Issue

Advanced Sensor-Based Methods for Condition Monitoring, Diagnostics, and Fault-Tolerant Control of Power Converters

Message from the Guest Editors

Power converters, as crucial components in power conversion, are extensively employed in applications such as electric vehicles, renewable energy systems, rail transportation, and power transmission. Ensuring their operational safety and reliability is paramount. The aim of this Special Issue is to integrate advanced sensor-based methods such as condition monitoring, diagnosis, and fault-tolerant control into existing control and/or information systems to enhance the reliability of power converters, thereby ensuring system operational safety and reducing maintenance costs. Various technologies such as sensor monitoring, artificial intelligence, analytical modeling, state estimation, and feature selection will be synergistically merged to enhance the monitoring accuracy and adaptability of practical systems. We invite researchers from academia and industry to submit original and unpublished manuscripts to this Special Issue to showcase the latest advancements in the relevant topics.

Guest Editors

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Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

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