Special Issue

Fault Detection and Diagnostics in Power Systems

Message from the Guest Editors

Electrical power systems are critical not only for industry but also for daily human life, as they are responsible for the generation, transmission, and distribution of energy across the globe. Faults can occur at any stage of a power system—generation, transmission, or distribution—and any of these can directly impact end users. Continuous efforts have been made to address these issues. However, the growing energy demand and the increasing integration of renewable energy sources present significant challenges for maintaining power system stability and reliability. This Special Issue is dedicated to the publication of novel strategies and methodologies for the detection, classification, and diagnosis of faults in power systems. It welcomes contributions that involve conventional approaches as well as those based on emerging technologies such as artificial intelligence, machine learning, and data-driven analytics. The aim is to provide a comprehensive platform for researchers and professionals to share innovative solutions that enhance the resilience, safety, and efficiency of modern power 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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