



Monitoring, Diagnosis, and Prognostics for Power Industry Devices

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Message from the Guest Editors

Recent decades have seen an increase in the complexity of production systems due to higher requirements for profitability. Currently, thanks to the progress in information technology, automation and telecommunications, the industry 4.0 revolution is taking place. The Internet of Things, Digital Twins technology, Artificial Intelligence and Machine Learning support the intelligent processing of huge amounts of operational data of technological processes. This is a completely new basis for monitoring, diagnostics and prognostics of energy devices. In order to create a space for sharing experiences in this new and dynamically developing research field, the Special Issue is devoted to the diagnosis of power systems and devices. Topics of interest for publication include, but are not limited to

- Power boilers diagnostics;
- Combustion engines diagnostics;
- Steam, gas, water and wind turbines diagnostics;
- Power generators diagnostics;
- Energy storage systems diagnostics;
- Operation and maintenance control of heat power plants;
- Operation and maintenance control of nuclear power plants;
- Operation and maintenance control of renewable energy systems.





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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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