



Fault Diagnosis and Health Monitoring of Mechanical Systems

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Message from the Guest Editors

This Special Issue aims to publish the latest advancements and research findings in the field of mechanical systems' fault diagnosis, as well as the health monitoring and interpretable intelligent recognition. It aims to explore innovative theories, methodologies, and technologies employed in ensuring the safety and longevity of mechanical systems. Topics covered may include, but are not limited to, dynamics mechanism analysis, signal adaptive filtering, blind source separation, predictive maintenance techniques, information fusion, intelligent systems' fault diagnosis, predictive techniques, IoT applications, interpretable deep learning algorithms, and digital twin approaches to mechanical systems' health maintenance. The Special Issue provides a platform for experts, scholars, and research groups in related fields to share their insights, experiences, and solutions contributing to the advancement of the intelligent fault diagnosis and health monitoring of mechanical 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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