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Intelligent Fault Diagnosis of Rotating Machinery

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Deadline for manuscript submissions:

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Message from the Guest Editors

Diverse rotating machineries, as crucial entities, are widely integrated in high-tech equipment of the Industry 4.0 era. Timely diagnosing abnormal behavior and identifying fault locations are essential for in-service operation. This Special Issue will collect all research on intelligent fault diagnosis methods and applications in rotating machineries, including (but not limited to):

- Advanced sensing and perception;
- Advanced signal processing and deep feature mining;
- Knowledge discovery;
- Incipient anomaly detection;
- Deep-learning-assisted methods in fault diagnosis;
- Unbalanced dataset and mitigation methods;
- Transfer learning and domain adaption;
- Open-source datasets and dissemination;
- Adaptive and online learning;
- Physics-informed machine learning and hybrid methods;
- Digital-twin-based fault diagnosis;
- Failure prognosis;
- Hardware and IoT system for intelligent fault diagnosis;
- New applications of rotating machinery diagnosis.











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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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