



## Intelligent Machine Fault Diagnosis

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Deadline for manuscript  
submissions:

**closed (20 October 2022)**

### Message from the Guest Editors

Dear Colleagues,

As a critical part of machine health management, intelligent fault diagnostics and the prognostics of the machinery aim to identify the mode, severity, location, and degradation trend of faults. With this fault information, reliable and predictive maintenance-based decisions can be made to help avoid the sudden shutdown of machinery and some unexpected economic loss. Therefore, intelligent machine fault diagnostics and prognostics can significantly benefit industrial production.

This Special Issue focuses on cutting-edge algorithms/techniques for intelligent machine fault diagnostics and prognostics. Potential topics include but are not limited to:

- Intelligent machine fault diagnostics and prognostics based on various sensor data;
- Dynamic analysis for machine condition monitoring;
- Digital-twin-based fault diagnostics and prognostics;
- Remaining useful life prediction of the machinery;
- Machine fault diagnostics under non-stationary operating conditions;
- Fatigue analysis of machinery;
- Machine-learning-based fault diagnostics and prognostics.





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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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