

## Special Issue

# Advanced Sensing for Mechanical Vibration and Fault Diagnosis

### Message from the Guest Editors

With the arrival of modern manufacturing systems, machines are becoming more automatic and efficient, which require them to meet the demands of higher reliability, better quality and increased availability. As a result, machine fault diagnosis systems have drawn extensive attention, and advanced sensing techniques are urgently needed to collect useful monitoring data. Therefore, more advanced and intelligent fault diagnosis methods and measurement techniques still require further research. This Special Issue aims to provide a platform to present high-quality original research on the latest developments of sensing and measurement techniques in machine vibration and fault diagnosis. This Special Issue encourages submissions that cover, but are not limited to, the following topics:

- Advanced sensing techniques for machine fault diagnosis.
- Machine learning technologies in sensing systems.
- Mechanical fault diagnosis-based vibration signal processing.
- Advanced sensing and monitoring techniques under variable working conditions.
- Transfer learning-based mechanical fault diagnosis and prognosis.
- Sensor fusion techniques with multi-modal data.

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### Guest Editors

Prof. Dr. Jinrui Wang

Dr. Zongzhen Zhang

Dr. Xingkai Yang

Dr. Ke Zhao

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### Deadline for manuscript submissions

closed (10 March 2024)



## Sensors

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### Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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### Editor-in-Chief

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