



## Machine Fault Diagnostics and Prognostics

Guest Editors:

**Prof. Dr. Jong-Myon Kim**

Department of Electrical,  
Electronic and Computer  
Engineering, University of Ulsan,  
Ulsan 44610, Republic of Korea

**Prof. Dr. Cheol Hong Kim**

School of Computer Science and  
Engineering, Soongsil University,  
Seoul 06978, Korea

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submissions:

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### Message from the Guest Editors

This Special Issue will focus on the topic of fault diagnosis and prognosis of industrial equipment and mechanical structures. We invite researchers and practicing engineers to contribute original research articles that discuss issues related but not limited to condition-based monitoring, fault diagnosis and prognosis of industrial machines and mechanical structures, diagnostic and prognostic techniques based on AI, such as deep learning, transfer learning, and neuro-fuzzy inference techniques, AI-based solutions that are explainable, solutions utilizing the Internet of Things, cloud computing, cyber physical systems, and machine-to-machine interfaces and paradigms for fault diagnosis and prognosis in the context of Industry 4.0. We would also welcome review articles that capture the current state-of-the-art and outline future areas of research in the fields relevant to this Special Issue.

### Keywords

- Condition monitoring
- Fault diagnosis
- Health prognosis
- Remaining useful life
- Deep learning
- Artificial intelligence
- Condition-based maintenance
- Cyber physical systems





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## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**

Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## 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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*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
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