# Special Issue

# Intelligent Fault Diagnosis and Health Detection of Machinery

## Message from the Guest Editors

Modern machinery is usually characterized by a complex electromechanical or mechanical-electro-liquid system. As these systems become increasingly complex, higher standards of reliability and safety are required. To ensure the reliable operation of machines, it has always been an issue of significance to comprehensively and accurately diagnose the latent faults of the machinery. In recent years, a multitude of techniques for intelligent fault diagnosis and health detection of machinery have been developed and described in the literature. This Special Issue welcomes any original and high quality papers dealing with but are not limited to: (1) Early weak fault detection method of machines; (2) Advanced signal processing techniques for feature extraction; (3) Deep learning–based intelligent fault diagnosis of machines; (4) Fault detection of machines under varying speed conditions; (5) Health condition monitoring of electromechanical and mechanical-electro-liquid systems; (6) Reliability analysis and evaluation of electromechanical and mechanical-electro-liquid systems

## Guest Editors

Dr. Xingxing Jiang

School of Rail Transportation, Soochow University, Suzhou 215131, China

Dr. Xiaojian Yi

School of Mechatronical Engineering, Beijing Institute of Technology, Beijing 100811, China

## Deadline for manuscript submissions

closed (20 September 2023)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/108490

*Applied Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

# Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

# About the Journal

## 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.

## Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

## Author Benefits

**Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:**

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:**

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )