applied sciences

IMPACT FACTOR 2.5

CITESCORE 5.5

an Open Access Journal by MDPI

Intelligent Maintenance of Machines with Big-Data Era

Guest Editors:

Dr. Bin Yang
School of Mechanical Engineering, Xi'an Jiaotong University, Xi'an 710000, China

Dr. Li Yang
School of Reliability and Systems Engineering, Beihang University, Beijing 100191, China

Deadline for manuscript submissions:
closed (20 October 2024)

Message from the Guest Editors

Due to the huge potential value of big data for machines, intelligent maintenance has been a hot topic in prognostics and health management. The referenced methodologies and technologies include advanced measurement and data collection, intelligent health monitoring and fault diagnosis, remaining useful life prediction and prognostics, maintenance optimization, etc. This Special Issue aims to collect the latest research achievements regarding intelligent maintenance of machines. The potential scopes are suggested but not limited to the following:

- Digital twin modeling of mechanical systems;
- Intelligent fault diagnosis with limited data;
- Transfer learning-based fault diagnosis of machines;
- Large-scale diagnosis foundation models;
- Data-driven remaining useful life prediction;
- Data-model-fusion prognostics of machines;
- Health assessment and maintenance asset optimization;
- Intelligent maintenance and repairment decision making

applied sciences

IMPACT FACTOR 2.5

CITESCORE 5.5

an Open Access Journal by MDPI

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.

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, Embase, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
𝕏@Applsci