



## Smart Condition Monitoring and Maintenance in Mechanical Systems

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Deadline for manuscript  
submissions:

**closed (20 May 2024)**

### Message from the Guest Editors

New challenges and opportunities are posed in the advancement of signal and vision techniques, which benefits the intelligent diagnosis of mechanical systems. Therefore, this Special Issue is intended for the presentation of new ideas and experimental results in the field of smart condition monitoring and maintenance of mechanical systems from the design, service, and theory to their practical use.

Areas relevant to high smart monitoring and maintenance include, but are not limited to, signal and vision processing, novel algorithms and applications, artificial intelligence, machine learning, deep learning, and feature engineering. The mechanical systems include, but are not limited to, radar, rotor, gear, bearing, cutting tool, solar energy, and large rotary machinery.

This Special Issue will publish high-quality, original research papers, in the overlapping fields of:

- Artificial intelligence, machine learning, and deep learning;
- Stationary and nonstationary signal processing;
- Image processing and machine vision;
- Big data applications, algorithms, and systems;
- Feature engineering;
- Data mining.





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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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