Special Issue

Recent Advances and Innovation in Prognostics and Health Management

Message from the Guest Editors

Prognostics and Health Management (PHM) is a field that focuses on the degradation mechanisms of systems in order to estimate their health status, anticipate their failure and optimize their maintenance. PHM uses methods, tools and algorithms for monitoring, anomaly detection, cause diagnosis, prognosis of the remaining useful life (RUL) and maintenance optimization. The purpose of this Special Issue is to show and share new ideas and achievements of PHM approaches, methods and related applications in engineering practices with relevant experts, scholars and engineers around the world. For this Special Issue, original research articles and reviews are welcome. Topics and themes of this Special Issue may include but are not limited to: degradation and failure mechanism analysis;
degradation modeling and related statistical methods;
fault and RUL prognostics;
maintenance strategy;
fault diagnosis and fault-tolerant control;
digital twins and machine learning techniques in PHM;
reliability estimation and risk analysis;
useful life evaluation.

Guest Editors

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Deadline for manuscript submissions

closed (20 May 2025)

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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.

Editor-in-Chief

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