Special Issue

Complex Systems Reliability and Maintenance Optimal Management Using the PHM Approach and Artificial Intelligence

Message from the Guest Editors

This special issue focuses on the theory and application of Prognostic and Health Management (PHM) methodologies in real industrial contexts. Due to the potential advantages PHM is receiving a broad consensus. Despite encouraging results achieved by methods proposed, there are still important open issues that need to be addressed (e.g. raw data handling and pre-processing, supervising, effect of operating conditions, etc) We are soliciting papers on topics that include but are not limited to:

- Applications of semi-supervised and incremental learning techniques for novelty detection and fault detection
- Incremental feature learning for industrial equipment signals
- Applications of PHM in IIoT contexts
- Degradation modeling of components operating in different operating conditions
- System-level prognostic
- Definition of requirements and challenges for the implementation of Predictive Maintenance in industries Integration of predictive maintenance with preventive policies
- Cost-benefit analysis of predictive maintenance

Guest Editors

Prof. Dr. Alberto Regattieri

Prof. Dr. Matthias Klumpp

Dr. Miguel Delgado-Prieto

Deadline for manuscript submissions

closed (10 January 2022)



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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

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