



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

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Deadline for manuscript
submissions:

17 November 2021

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

