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Special Session on

New Machine Learning Methods for Prognostic and Health Management (PHM)

Organized by

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Call for Papers

Theme:

Industrial systems are gradually embarking on the road of complex, automated and intelligent development. In the big data era, prognostics and health management (PHM) of industrial systems is an important research direction for the rapid development of manufacturing. Machine learning approaches for PHM have received extensive attention and achieved successes to a certain extent. However, there are many challenges, such as interacting faults, integration of domain knowledge, etc. Therefore, this special session aims to match-up experts in the academic and industry to exchange research ideas and facilitate cooperation in new machine learning methods for PHM.

Topics of interest include, but are not limited to:

- Data-driven methods
- Fault tolerance
- Health indicator construction
- Intelligent diagnosis
- Domain knowledge integration

- Remaining useful life prediction
- Reliability analysis
- Uncertainty management in machine learning methods
- Industrial applications