

CALL FOR PAPERS - SPECIAL SESSION

IFAC MIM'22

June 22-24, 2022 ▪ Nantes, France

Session title: Advances in Prognostics and Health Management for Manufacturing

Session description:

The Prognostic and Health Management (PHM) system is one of the main protagonists of the Industry 4.0 revolution. It is an enabling discipline consisting of technologies and methods to assess the reliability of a product in its actual life cycle conditions to determine the advent of failure and to mitigate system risk. PHM can improve equipment availability, reduce maintenance costs and support a better ability to plan for maintenance events. Many works address the improvement of techniques adopted for realizing PHM task based on physical models and data.

The aim of this Special Session is to promote prognostics and health management, and act as a platform to present high-quality original research on the latest developments especially on health assessment and RUL prediction.

Potential topics include but are not limited to:

- Signal processing of measured data
- Health indicator extraction from measured data
- Degradation modeling of measured data
- RUL prediction based on data-driven and physical model-based approaches
- PHM for manufacturing (e.g. Semiconductor, Electronics, Automotive, ...)

Session Co-Chairs:

Dima EL JAMAL, Aix Marseille University, France (email: dima.el-jamal@lis-lab.fr)

Dr. Bouchra ANANOU, Aix Marseille University, France (email: bouchra.ananou@lis-lab.fr)

Dr. Guillaume GRATON, Centrale Marseille, France (email: guillaume.graton@lis-lab.fr)

Prof. Mustapha OULADSINE, Aix Marseille University, France (email: mustapha.ouladsine@lis-lab.fr)