CALL FOR PAPERS

PHM 2025

Bruges · Belgium

The 15th Prognostics and System Health Management Conference, June 2 – 5, 2025

Following the successful PHM conferences over the past 14 years, the 15th Prognostics and System Health Management Conference (PHM 2025) will be held in Bruges, Belgium, on **June 2-5, 2025**. This conference will be held together by KU Leuven, IET, RISE Research Institutes of Sweden, KTH Royal Institute of Technology, Le Cnam, Université Paris Saclay, Zhengzhou University of Light Industry, University of Bath, Femto-St Institute, L2S, GeePS, HBM Prenscia, CTBU, and CJA. All accepted papers will be submitted for inclusion in IET Digital Library and indexing in Ei Compendex and Inspec. Please refer to the conference website **(www.phmice.org)** for more details. Please contact us **(phm2025@phmice.org)** if you have any questions.

Bruges is a place that lives and breathes history. Visiting this historic city means travelling back in time to the Middle Ages. It is both magical and authentic. Bruges is one of Europe's best-preserved cities. This is evidenced by its historic city centre, the entirety of which has been designated a UNESCO world heritage site.

Topics of Interest

PHM 2025 is seeking original papers for presentations at the conference. Researchers and participants from industry, academia, and government organizations are invited to submit their papers on the following topics. Participants with only abstract submissions are also welcome to the conference.

Principles

- Fault detection and diagnosis
- Aging influence in PHM
- Fault estimation and prediction
- Structural sensing
- Modeling and simulation
- Data-driven methods
- Model-based methods
- Sensor fusion
- Logic/reasoning techniques
- Machine/deep learning for PHM
- Affordability aspects and business cases for PHM
- Standards and methodologies

System Designs & Implementation

- Online/real time monitoring
- Requirements development
- System design & engineering
- Automated reconfiguration
- Statistical analysis of uncertainty
- Component-level PHM
- Nondestructive evaluation technologies with PHM utilization
- Decision support & simulation
- PHM computer-aided engineering technologies
- Physics of failure
- Blockchain for PHM
- Verification, validation, and maturation

Applications

- Rail transportation
- PHM for power smart grid
- PHM for electronics components and systems
- PHM within innovative aerospace and defense, appliance, medical, electric vehicle, deep drilling, and energy applications
- Fleet/industrial PHM-based maintenance management
- Lessons learned from PHM systems design and integration
- Cloud computing for PHM
- PHM for energy systems
- Sensors and devices

Important Dates

Draft Full Paper Submission Due
April 1, 2025

Notification of Paper Acceptance
April 30, 2025

Final Manuscript Due
May 10, 2025

Author Registration Deadline
May 10, 2025

Conference Dates
June 2 - 5, 2025

Conference Committee

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