

CALL FOR PAPERS

PHM | 2024

Stockholm
Sweden

Important Dates

Draft Full Paper Submission Due

February 1, 2024

Notification of Paper Acceptance

March 1, 2024

Final Manuscript Due

March 15, 2024

Author Registration Deadline

April 1, 2024

Conference Dates

May 28 - 31, 2024

Conference Committee

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Prognostics and System Health Management Conference May 28 – 31, 2024

Following the successful PHM conferences over the past 13 years, the 2024 Prognostics and System Health Management Conference (PHM 2024) will be held in Stockholm, Sweden, on **May 28 – 31, 2024**. This conference will be held together by RISE Research Institutes of Sweden, KTH Royal Institute of Technology, Le Cnam, Université Paris Saclay, IEEE Sweden Section, Zhengzhou University of Light Industry, University of Bath, Femto-St Institute, L2S, GeePS, HBM Prenscia, CTBU, and CJA. Papers will be submitted for inclusion in IEEE Xplore (EI indexed) as well as other Abstracting and Indexing (A&I) databases. Please refer to the conference website (www.phmice.org) for more details. Please contact us (phm2024@phmice.org) if you have any questions.

Stockholm is the capital and largest city of Sweden as well as the largest urban area in Scandinavia. As the cultural, media, political, and economic centre of Sweden, the Stockholm region alone accounts for over a third of the country's GDP and is among the top 10 regions in Europe by GDP per capita. The city is home to some of Europe's top-ranking universities and it hosts the annual Nobel Prize ceremonies and banquet at the Stockholm Concert Hall and Stockholm City Hall.

Topics of Interest

PHM 2024 - Stockholm 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

