

CALL FOR PAPERS

PHM | 2027

Karlsruhe
Germany

Important Dates

Draft Full Paper Submission Due
January 15, 2027

Notification of Paper Acceptance
March 10, 2027

Final Manuscript Due
April 1, 2027

Author Registration Deadline
April 15, 2027

Conference Dates
June 1 - 4, 2027

Conference Committee

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The 17th Prognostics and System Health Management Conference, June 1 – 4, 2027

Following the successful PHM conferences over the past 16 years, the 17th Prognostics and System Health Management Conference (PHM 2027) will be held in Karlsruhe, Germany, on **June 1 - 4, 2027**. This conference will be held together by Karlsruhe Institute of Technology, IET, Reutlingen University, Aix Marseille University, KU Leuven, RISE Research Institutes of Sweden, KTH Royal Institute of Technology, Le Cnam, Université Paris Saclay, University of Bath, Femto-St Institute, Guangdong Polytechnic Normal University, L2S, GeePS, CTBU, CJA, and MDPI. All accepted papers will be submitted for inclusion in IET Digital Library and indexing in Ei Compendex (EI Indexed), Scopus, and Inspec. Please refer to the conference website (<https://phmic.org>) for more details. Please contact the Organization Committee (OC@phmic.org) if you have any questions.

Located on the right bank of the Rhine near the French border, Karlsruhe is Germany's legal center, being home to the Federal Constitutional Court, the Federal Court of Justice and the Public Prosecutor General. Karlsruhe is close to picturesque Heidelberg and Europe's transportation hub Frankfurt Airport.

Topics of Interest

PHM 2027 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

- ☐ Machine/deep learning for PHM
- ☐ Prognostics and system health management
- ☐ Fault detection and prediction
- ☐ Structural health monitoring
- ☐ Prescriptive/knowledge-based maintenance
- ☐ Data-driven/model-based methods
- ☐ Multi-modal and sensor fusion
- ☐ Affordability aspects and business cases for PHM
- ☐ Reliability and asset management

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
- ☐ Large-scale foundation models for PHM
- ☐ Complex adaptive system
- ☐ Verification, validation, and maturation

Applications

- ☐ PHM for transportation
- ☐ PHM for power smart grid and energy storage
- ☐ PHM for electronics components and systems
- ☐ PHM within innovative aerospace, 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
- ☐ Trustworthiness of PHM AI systems



Hochschule Reutlingen
Reutlingen University

IET The Institution of
Engineering and Technology

amU
Aix Marseille Université

université
PARIS-SACLAY

L2S Laboratoire
Signaux &
Systèmes

L I S
LABORATOIRE
D'INFORMATIQUE
A DES SYSTEMES



KU LEUVEN

UNIVERSITY OF
BATH

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GeePS
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CJA

MDPI