

Asia Pacific Prognostics and Health Management Conference 2027 (PHMAP 2027)

December 2027 | Singapore



Important Dates

Abstract Submission: Jan 15, 2027 – Jun 30, 2027

Paper submission: May 1, 2027 – Aug 15, 2027

Paper Acceptance: Sep 15, 2027



KEY ORGANIZING COMMITTEE

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TOPICS OF INTEREST

PHM Theory and Methods:

- Condition-based and Predictive Maintenance
- Explainable and trustworthy Detection, Diagnostics & Prognostics Methods
- Artificial Intelligence (including machine learning and deep learning)
- Data-driven, Model-based, and Hybrid methodologies for Modeling of Degradation
- Physics of Failure
- Fault-Adaptive Control

PHM Design and Integration:

- Digital Twin and Digital Thread
- IoT for PHM cost-effect and return-oninvestment analysis
- Failure Mode. Effects & Critical Analysis
- Smart Manufacturing (Planning, Automation, Device, Sensor)
- Decision Support Systems
- Software and Hardware for PHM
- Standards for PHM

PHM, Foundation Models and Emerging AI:

- Large Language Models for PHM and Manufacturing
- Foundation Models and Time-Series Foundation Models for PHM
- Multi-modal AI and Vision-Language Models for PHM
- Generative AI for PHM and Intelligent Maintenance
- Genetic AI for PHM and Autonomous Decision-making for PHM
- Retrieved Augmented Generation, Knowledge Graphs, and Knowledge-Enhanced AI
- Self-Supervised, Continual-Learned, and Few Shot Learning
- Trustworthy, Safe, Robust, and Explainable AI for PHM
- Edge AI and On-device Intelligence for Real-time PPM
- Human AI Collaboration and Human-in-the-loop PM
- Synthetic Data and Digital-Twin-based AI for PHM