PHMAP 2023

Asia Pacific Conference of the Prognostics and Health Management Society 2023

September 11 (Mon) – 14 (Thu), 2023

Hitotsubashi Hall, National Center of Sciences Building, Tokyo, Japan

1st Call for Papers

It is our pleasure to inform you that the 4th Asia Pacific Conference of the Prognostics and Health Management Society (PHMAP 2023) will be held from September 11th to 14th, 2023 in Tokyo, Japan. We welcome all researchers, engineers, experts and students who are interested in prognostics and health management (PHM) and related fields. It will offer opportunities for experts both in industrial and academic fields to attain synergetic exchanges of ideas and practices in all areas of PHM. Global thought leaders will be invited to give high quality reports at this conference.

Prospective authors are encouraged to submit high-quality original research and technical contributions for posters. Selected papers will be invited for EI and SCI index Journals. Outstanding papers will be selected as the Best papers.

Important Dates:

- Organized session proposal: Jan. 31, 2023
- Abstract submission: Feb. 28, 2023
- Paper submission: Apr. 30, 2023
- Review feedback: May 31, 2023
- Final paper submission: Jun. 30, 2023
- Pre-registration: Jul. 31, 2023

Organizing committee (to be extended):

General Chair: Prof. **Takehisa Yairi** (Univ. of Tokyo, Japan)
Co-Chairs: Dr. **Eric Bechhoefer** (GPMS International, USA)
Prof. **Jongsoo Lee** (Yonsei Univ., Korea)
Honorary Chairs: Prof. **Joo-Ho Choi** (Korea Aerospace Univ., Korea)
Prof. **Shinichi Nakasuka** (Univ. of Tokyo, Japan)
Mr. **Andrew Hess** (The Hess PHM Group, USA)
Prof. **Jay Lee** (Univ. of Cincinnati, USA)
Dr. **Byeng Dong Youn** (OnePredict Inc., Korea)
Advisors: Prof. **David He** (Univ. of Illinois, USA)
Prof. **Ian Jennions** (Cranfield Univ., UK)
Mr. **Jeff Bird** (TECnos, Canada)

Topics of Interest (but not limited to):

PHM Theory and Methods

Condition-based and Predictive Maintenance
Verification and Validation
Explainable and Trustworthy for PHM
Modeling of Degradation
Data-driven, Model-based, and Hybrid Methodologies for PHM

Detection, Diagnostics & Prognostics Methods
Machine Learning (incl. Deep Learning) **for PHM**
Physics of Failure
Fault-Adaptive Control

PHM Design and Integration

Digital Twin and Digital Thread
IoT for PHM
Standards for PHM
Smart Manufacturing (Planning, Automation, Device, Sensor)

Decision Support Systems
Software and Hardware for PHM
Failure Mode, Effects & Criticality Analysis
Cost Benefit and Return-on-Investment Analysis

PHM Applications

Energy Systems (Power Plant, Wind Turbine, Photovoltaics, etc.)
Mobility and Transport (Automobile, Rail, Marine, etc.)
Aerospace Systems (Aviation, UAV, Rocket Engine, Artificial Satellite, etc.)
Process Industry (Steel, Chemical, Glass, Oil & Gas, etc.)
Electronic and electrical systems (Semiconductor, Battery, Substrate, Solder, Elevator, HVAC, Automatic Ticket Gate, etc.)
Structural Health Monitoring (Bridge, Road, Building, Tunnel, etc.)
Cyber Physical System (Smart Grid, Disaster Prevention, Autonomous Automobile, Medical Monitoring, etc.)
Mechanical and Hydraulic Systems (Rotating Machinery, Construction Machinery, Tribology, Water Supply, etc.)
Communication Network (Mobile Network, Cybersecutiry, etc.)

Registration fee:

The Organizing Committee of PHMAP23 is monitoring the Coronavirus (COVID-19) situation to ensure the health and safety of our meeting and participants, as well as our staff. Due to various uncertainties of the COVID-19 and anticipation for safe travel to Japan, we are considering various possibilities for holding PHMAP23 including a Hybrid conference depending on the situation, assuming in-person participation.

Contact Information:

e-mail: secretariat@phmap.jp
URL: https://phmap.jp/

		In-person		Online	
		Pre-registration	Late	Pre-registration	Late
Professional	Conference	¥70,000	¥80,000	¥60,000	¥70,000
	Short course	¥50,000	¥60,000	¥40,000	¥50,000
	Conference+ Short course	¥110,000	¥130,000	¥90,000	¥110,000
Student	Conference	¥35,000	¥40,000	¥30,000	¥35,000
	Short course	¥25,000	¥30,000	¥20,000	¥25,000
	Conference+ Short course	¥55,000	¥65,000	¥45,000	¥55,000

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Japan Society of Tribologists   The Society of Instrument and Control Engineers
Japan Society of Maintenology   Gas Turbine Society of Japan   The Japan Society of Mechanical Engineers
The Japan Society for Artificial Intelligence   Atomic Energy Society of Japan

Sponsorship:

The organizers welcome offers of support from global academic, industry and government organizations for mutual benefit.

Category: Earth ¥150,000, Moon ¥300,000, Mars ¥600,000

Detail of package Information will be found in the website.