FIRST CALL FOR PAPERS

2017 Prognostics and System Health Management Conference-Harbin, China (PHM-2017 Harbin)



Following a series of successful PHM conferences in the past few years, 2017 Prognostics and System Health Management Conference-Harbin (PHM-2017 Harbin) will be held in Harbin, China, from July 9-12, 2017. PHM-2017 Harbin is sponsored by Harbin Institute of Technology (HIT), IEEE Reliability Society, and IEEE Harbin Section. PHM-2017 Harbin will continually provide a premier interdisciplinary forum for researchers, scientists and scholars in the domains of aeronautics and astronautics, energy and power systems, process industries, computers and telecommunications, and industrial automation to present and discuss the most recent innovations, trends, concerns, challenges, and solutions in PHM. All the accepted papers will be published in IEEE Xplore and indexed by Engineering Index (EI).

Topics of Interest

PHM-2017 Harbin is seeking original papers for presentation at the conference. Researchers and participants from academia, industry and government organizations are invited to submit papers on the following topics:

Principles	Systems Design & Implementation	Applications
Ø Physics of failure	Ø Requirements development	Ø PHM within power smart
Ø Sensors and devices	Ø System design &	grid technology
Ø Structural sensing	engineering	Ø PHM within distributed,
Ø Modeling and simulation	Ø Automated reconfiguration	networked & cloud
Ø Data-driven methods	Ø Statistical analysis of	computing
Ø Model-based methods	uncertainty	Ø PHM for electronics
Ø Multi-sensor fusion	Ø Component-level PHM	components and systems
principles	Ø Nondestructive evaluation	Ø PHM within innovative
Ø Logic/reasoning	technologies with PHM	aerospace and defense,
techniques	utilization	appliance, medical, electric
Ø Verification, validation,	Ø Decision support &	vehicle, deep drilling, and
and maturation	simulation	energy applications
Ø Benchmarking	Ø PHM computer-aided	Ø Fleet/industrial PHM-based
Ø Affordability aspects and	engineering technologies/	maintenance management
business cases for PHM	applications	Ø Informed logistics
Ø Standards and	Ø Integrated structural/frame	Ø Lessons learned from PHM
methodologies		systems design and
	health management	integration

With the developments of German Industries 4.0, Industrial Internet of the U.S., and China Manufacturing 2025, the global manufacturing industry is facing a crucial transformation. As the systems become more complex, higher standards on reliability and safety are required. The theme of PHM-2017 Harbin is PHM for new industry architecture. At the conference, Industrial Big Data, Internet of Things (IoT), Cyber-Physical Systems (CPS), etc., are part of the main focuses. Researchers and practitioners in academia and related industries are cordially invited to join us.

CALL FOR SPECIAL SESSION PROPOSALS

In addition, proposals for Special Sessions are welcomed. Prospective organizers of special sessions should submit proposals indicating:

- → Title of the proposed session.
- Motivation and objectives of the session, emphasizing the benefits for PHM-2017 Harbin.
- ♦ Short biography of the organizer (up to two) with complete address, and additional contact information.
- ♦ List of at least 6-8 prospective papers with titles, coauthors, and contact information of corresponding authors.
- ❖ Submissions to a special session must be reviewed by the session organizer(s) and the conference's Review Group. The due date for Special Session Proposal is February 25, 2017.

Paper Submission

Submit a full manuscript (max. 6 pages) including coauthors' names, affiliations, and complete email addresses. All papers should be submitted electronically in PDF or Word, by March 15, 2017, through the conference website.

Important Dates:

Abstract Submission Due (optional):

Abstract Acceptance:

25 February, 2017

Full Paper Submission Due:

15 March, 2017

Notification of Acceptance:

15 April, 2017

Camera-ready Paper Due:

30 April, 2017

Conference Date:

9-12 July, 2017

What is New about PHM-2017 Harbin

- ♦ Chinese forum on PHM applications and development
- ♦ Workshop on academy and industry
- ♦ Seminars on PHM new algorithms and models

For more exciting news, please continuously pay attention to www.phm2017.org and WeChat (coming soon).

To make PHM 2017 more open and diverse, researchers and scholars are welcome to join or contribute to the conference committee and organize special sessions.

Further information (Conference website): www.phm2017.org Contact the PHM2017 organizer: phm2017@hit.edu.cn/phm2017@126.com