

CALL FOR Exhibitors

PHM 2020

Besançon
France

Photo Courtesy of the New York Times

Important Dates

Draft Full Paper Submission Due

February 1, 2020

Notification of Paper Acceptance

February 20, 2020

Author Registration Due

March 5, 2020

Final Manuscript Due

March 5, 2020

Conference Dates

May 4-7, 2020

Conference Committee

Honorary General Chairs

Jie (Peter) Liu, Carleton U, Canada

Jean-Marc Nicod, Femto St, France

General Chair

Claude Delpha, U Paris Saclay, France

Steering Committee Chair

Chuan Li, Chongqing Technology and Business U, China

Program Chairs

Pierre Dersin, Alstom Digital Mobility, France

Ryad Zemouri, Le Cnam, France

Demba Diallo, U Paris Saclay, France

Noureddine Zerhouni, Femto St, France

Kamal Medjaher, ENI Tarbes, France

Datong Liu, Harbin Institute of Technology, China

Arrangements Chairs

Christophe Varnier, Femto St, France

Jean-Marc Nicod, Femto St, France

Zeina Al Masry, Femto St, France

Rafael Gouriveau, Kipers Industries, France

Keynote Chairs

Madhav Mishra, Lulea U of Technology, Sweden

Xiaojian Yi, North Vehicle Research Institute, China

Prognostics and Health Management Conference May 4-7, 2020

Following the successful PHM conferences over the past 10 years, the 2020 Prognostics and Health Management Conference (PHM 2020) will be held in Besançon, France, on **May 4-7, 2020**. This conference will be held together by Femto St, Le Cnam, Université Paris Saclay, L2S, GeePS, Alstom Digital Mobility, HBM Prenscia, IEEE Reliability Society, IEEE France Section, International Society of Measurement, Management and Maintenance, CTBU, Carleton University, and CJA. All the accepted papers will be published in IEEE Xplore® for indexing with Engineering Index (EI). Selected excellent papers will be published in the special issues of several SCI journals. Please refer to the conference website (www.phmice.org) for more details. Please contact us (phm2020@phmice.org) if you have any questions.

Besançon, the ancient city in the eastern part of France near the border with Switzerland, is known as the watch capital of France. The city is the birthplace of Victor Hugo and the Lumière brothers, the home of Femto-St (i.e., the research institute that launched two data challenges in the past PHM conferences), the University of Franche-Comté and a Unesco World Heritage site for its citadel and fortifications, part of the defensive system built around France by Sébastien Le Prestre de Vauban under orders from King Louis XIV.

Call for Exhibitors

Along with the conference paper sessions that cover a wide array of topics given below, PHM 2020 Besançon also offers a venue for exhibitors to showcase their products and services. A desk and two chairs will be provided to each exhibitor and some special needs may be accommodated if known early.

Principles

- Sensors and devices
- Structural sensing
- Modeling and simulation
- Data-driven methods
- Model-based methods
- Sensor fusion
- Logic/reasoning techniques
- Verification, validation, and maturation
- Machine/deep learning for PHM
- Affordability aspects and business cases for PHM
- Standards and methodologies

System Designs & Implementation

- 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

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

