



CALL FOR PAPERS

2013 Prognostics and System Health Management Conference, PHM-2013

September 8-11, 2013, Milan, Italy

www.aidic.it/phm

There is a growing interest in Prognostics and System Health Management (PHM). Many efforts are being devoted to the development of techniques for health monitoring, fault detection, diagnosis and prognosis with the intent of improving the safety and economic performances of existing and future structures, systems and components. PHM-2013 is an international conference aimed at exchanging on the state of the art in PHM research and application. Presentation of developments in various industrial fields is expected to highlight differences in research challenges and practical needs, while at the same time benefiting from cross-fertilization of methods and applications.

Topics of Interest

- Health Monitoring
- Fault Detection
- Fault Diagnostics
- Fault Prognostics
- Data-driven PHM Methods
- Model-based PHM Methods
- Hybrid PHM Methods
- Uncertainty in PHM
- System-level PHM
- Structural PHM
- Component-level PHM
- Design and Integration of PHM Systems
- Cost Analysis of PHM
- Verification, Validation, and Maturation of PHM Systems
- Standards for PHM
- Advanced Sensors
- Data processing
- Signal processing
- Vibration analysis
- Condition-Based Maintenance
- Predictive Maintenance
- Maintenance Decision Support
- Maintenance and Human and Organizational Factor
- Physics of Failure
- Reliability Prediction
- Simulation
- Optimization

Industrial Areas of Interest

- Aeronautics, Aerospace
- Automotive
- Chemical and Process Industry
- Electronics
- Energy
- Information Technology and Telecommunications
- Manufacturing
- Maritime Industry
- Nuclear Industry
- Oil & Gas
- Structural Engineering
- Train & Railway Industry

Important Dates:

October 23, 2012	Abstract Submission
November 23, 2012	Abstract Acceptance
January 23, 2013	Full Paper Submission
March 23, 2013	Notification of Acceptance/Rejection
April 3, 2013	Notification of lecture/poster presentation
May 23, 2013	Final revised manuscript submission and Registration deadline for Authors to have the paper included in final program and proceedings

Each paper will be evaluated for acceptance by at least two peer reviewers. Furthermore, paid registration to the Conference is mandatory for paper acceptance (one registration per paper). The publication of the full set of accepted papers will be referenced by SCOPUS and THOMSON REUTERS (ISI Web of Knowledge, Conference proceedings) and IEEE Xplore citation indexes. Publication of selected works in special issues of indexed scientific Journals will be pursued (e.g. the International Journal of Performability Engineering and the Journal of Risk & Reliability have already agreed).

Contribution to the Conference as sponsor and participation as exhibitor are welcome.

General Chair: Enrico Zio

Chair on Systems Science and the Energetic challenge, European Foundation for New Energy-EDF, Ecole Centrale Paris and Supelec, France
Energy Department, Politecnico di Milano, Italy

Co Chair for Asia: Kang Rui

School of Reliability and Systems Engineering
Beihang University, China

Co Chair for South America: Marcos Orchard

Department of Electrical Engineering
University of Chile, Chile

Co Chair for Oceania: Lin Ma

Queensland University of Technology, Australia

Co Chair for North America: Michael Pecht

CALCE Electronic Products and Systems
George Dieter Chair Professor of Mechanical Engineering, Professor of Applied Mathematics (prognostics for electronics), University of Maryland, USA

Technical Program Chair:

Piero Baraldi
 Energy Department
 Politecnico di Milano, Italy

Supporting Organizations

- ARAMIS s.r.l., Italy
- Associazione Italiana Di Ingegneria Chimica, AIDIC, Italy
- Calce, University of Maryland, USA
- Centre for Prognostics and System Health Management, City University of Hong Kong, China
- China PHM Society, China
- European Safety and Reliability Association, ESRA
- HEMIS - Electrical powertrain health monitoring for Increased Safety of FEVs (FP7 project)
- IEEE Reliability-Italian Section, Italy
- INNHF – Innovation through human factors in risk analysis and management (FP7 Marie Curie Initial Training Network)
- Institut des Sciences du Risque et de l'Incertain (ISRI), Ecole Centrale Paris-Supelec, France
- Reliability and Maintainability Center, University of Tennessee, USA
- School of Reliability and Systems Engineering, Beihang University, China

Sponsoring Organizations

- Chair on Systems Science and the Energetic challenge, European Foundation for New Energy-EDF, Ecole Centrale Paris-Supelec, France
- Laboratory of Signal and Risk Analysis (LASAR) – Politecnico di Milano, Italy
- Politecnico di Milano, Italy

Organizers & Conference Secretariat:

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