



CALL FOR PAPERS

Special Issue of the
International Journal of Prognostics and Health Management

Highlights of PHMAP17

SPECIAL ISSUE EDITORS

Byeng Dong Youn, Ph.D.

Associate Professor, Seoul National University, Korea

David He, Ph.D.

Professor, University of Illinois at Chicago, USA

Hyunseok Oh, Ph.D.

Assistant Professor, Gwangju Institute of Science and Technology, Korea

e-mail: editor@ijphm.org



Editor

Abhinav Saxena
General Electric Co., USA

Associate Editors

Kai Goebel
NASA Ames Research Ctr., USA
Marcos Orchard
University of Chile, Chile
Karl M. Reichard
Pennsylvania State Univ., USA
Liang Tang
Pratt & Whitney, USA
Weizhong Yan
GE Global Research, USA

Editorial Board

Sherif Abdelwahed
Mississippi State Univ., USA
Eric Bechhoefer
Green Power Monitoring Sys., USA
Jeff Bird
Tecnos, Canada
Peter Beling
University of Virginia, USA
Gautam Biswas
Vanderbilt University, USA
Leonard Bond
Iowa State University, USA
Jose Celaya
Schlumberger, USA
Kuan-Jung Chung
Nat'l Changhua Univ. of Edu, China
Ivan Cole
CSIRO, Australia
Neil Eklund
USA
Wolfgang Fink
The University of Arizona, USA
Torbjörn Fransson
SAAB AB, Sweden
Len Gelman
Cranfield University, UK
Antonio Ginart
SolarMax, USA
Ravi Rajamani
drR2 consulting, USA
Giovanni Jacazio
Politecnico di Torino, Italy
Seth Kessler
Metis Design, USA
Jay Lee
University of Cincinnati, USA
Sony Mathew
Schlumberger, USA
Kamal Medjaher
ENIT, France
Vincent Rouet
Airbus, France
Ginger Shao
Honeywell International Inc., USA
Peter Struss
Technical Univ. Munich, Germany
Bo Sun
Beihang University, China
George Vachtsevanos
Georgia Institute of Tech., USA
Brian A. Weiss
NIST, USA
Byeng D. Youn
Seoul National University, Korea

The International Journal of Prognostics and Health Management (IJPHM) is the premier *online open access journal* related to multidisciplinary research on Prognostics, Diagnostics, and System Health Management. PHM becomes a core engineering discipline for Industry 4.0, which enables real-time health assessment and prediction of complex engineered systems under uncertain operating conditions. This discipline has been widely applied to various engineering domains: manufacturing, automotive, air & ground transportation, energy and heavy industry, and maritime as a means to improve reliability, availability and maintainability. To focus dissemination of cutting edge research papers submitted in the 2017 Asia Pacific Conference of Prognostics and Health Management (PHMAP17), the IJPHM is thus calling for papers for a special issue on “Highlights of PHMAP17”.

Topics of Interest:

- PHM design, including but not limited to monitoring, diagnostic and prognostic methods
- Big data analytics for PHM
- Deep learning based PHM
- Data driven PHM methods under uncertainty
- Physics based PHM methods under uncertainty
- Maintenance modeling and optimization
- Methods for PHM validation
- PHM in manufacturing
- PHM applications to cyber-physical systems
- Analysis and/or design methodology under epistemic uncertainty
- Case studies and industrial applications that illustrate physics based and data driven diagnostics & prognostics

Submission Types:

Full-Length Regular Papers: Regular papers should describe new and carefully confirmed findings. Experimental procedures and results should be given in detail sufficient for others to replicate the work.

Technical Briefs: Technical briefs describe a single result, experiment, or technique of general interest in short manuscripts enough to describe experimental procedures and clearly, and interpret the results in the context of other research.

Industry Case Studies: Case studies are descriptive accounts of PHM applications in a real industrial environments. Techniques and apparatus used, results obtained, and lessons learned can be included to share experience with the community.

Survey Papers: Survey papers are of a tutorial or review nature covering emerging research topics in PHM or describe the best current practice, detailed characteristics and performance. These papers cover areas of general interest.

Special Issue Editors:

Prof. Byeng Dong Youn, bdyoun@snu.ac.kr,

Prof. David He, davidhe@uic.edu,

Prof. Hyunseok Oh, hsoh@gist.ac.kr

Submission Instructions: Please submit your manuscripts directly by going to the society webpage and follow instructions for journal submissions. There you will find an option to select the standards special issue.

Publication timeline: Papers submitted for this issue will go through the regular review process, but will receive expedited treatment in processing.

Paper submission by: August 31, 2017

Revised paper submission by: November 30, 2017

Publication of the special issue by: March 31, 2018

Initial review by: October 31, 2017

Final acceptance decision by: January 15, 2018