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C phmsociety **CALL FOR PAPERS**

Special Issue of the International Journal of Prognostics and Health Management

Standards for Prognostics and Health Management

SPECIAL ISSUE EDITORS

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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. This special issue is focused on the development, implementation, and evolution of standards, guidelines, and best practices relevant to condition monitoring, diagnostic, and prognostic technologies across a range of operational domains.

The development and implementation of standards have become a means of promoting more clear and accurate communication among disparate groups of people and technology. Some standards have become regulatory where they are adopted and enforced by organizations to ensure specific levels of capability or sufficiency. This not only provides benefit to the standards' end-user community, this also provides value to other stakeholders within the supply chain (whether they are upstream suppliers or downstream customers). Conversely some standards are nonregulatory where they are typically developed by a community of eventual end-users and then subsequently, and voluntarily, adopted by the same group. Some standards may be considered rigid in definition and implementation while others are less so. Standards-related activities also include the development of guidelines and best practices; Their proliferation and implementation have afforded end-users with sufficient flexibility to mold the guidelines and best practices to their specific operations, needs, and wants.

Standards, whether regulatory or not, have proven successful in multiple domains. They have been, and continue to be, developed in a range of industries including aerospace, agriculture, automotive, consumer electronics, electric power generation, machine tools, manufacturing, medical, oil & gas, robotics, transportation, and wind energy. The Call for Papers solicits articles on the following:

Topics of Interest:

- Survey papers highlighting existing PHM standards · Lifecycle of a PHM standard Evidence of PHM standards deployments and lessons learned • Proliferation of a standard(s) throughout a supply-chain Methods to address 'stale' / no longer used PHM standards • Standards organizations and their respective areas of focus Financial impact and burden of deploying PHM standards Workforce challenges faced during standards adoption Standards developed for monitoring, diagnostic, and/or Reconciling PHM standards needs and wants of disparate prognostic techniques stakeholder groups Strategies to increase standards involvement by stakeholders • PHM Standards vs. PHM guidelines vs. PHM best practices

Submission Types (papers can range from 4-8 pages in length):

Development Briefs: Development briefs describe an instance of a standard's development, the resultant impacts, and lessons learned with an emphasis on the successes and challenges of the development process and how it influenced the standard's lifecycle. IJPHM Communications template is recommended for development briefs.

Industry Case Studies: Case studies are descriptive accounts of standards within operational environments or actual products. Techniques and apparatus used, results obtained, and lessons learned can be included to share experience with the community. Depending on level of details presented, IJPHM Full paper or Technical Brief template may be used.

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

Special Issue Editors: Jeff Bird, jeffbird@rogers.com, Ravi Rajamani, ravi@drr2-consulting.com, Brian A. Weiss, brian.weiss@nist.gov

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.

Invitation to Present: Accepted papers are eligible for presentation at a future Annual Conference of the PHM Society

Deadlines: Abstract/NOI Due: October 20, 2017

Final Full Papers Due: February 12, 2018