

# Reliability Engineering & System Safety - Call for Papers

## Special Issue on *Impact of Prognostics and Health Management in Systems Reliability and Maintenance Planning*

Prognostics and Health Management (PHM) is an engineering discipline that enables real-time health assessment of a system under its actual operating conditions, as well as the prediction of its future state based on up-to-date information, by incorporating various disciplines including sensing technologies, physics of failure, machine learning, modern statistics, and reliability engineering. While PHM has roots from the aerospace industry, it is now utilized in many complex systems including manufacturing, maritime, ground transportation, energy and heavy industry as a means to improve reliability, availability and maintainability. In order to consolidate the knowledge and findings of the PHM in view of the application in many complex systems for the advanced reliability and maintenance, the journal of Reliability Engineering & System Safety calls for papers to publish in a special issue with the topic, *Impact of Prognostics and Health Management in Systems Reliability and Maintenance Planning*.

Topics of the special issue can include the following specific issues, but not limited to:

- PHM-enabled reliability improvement of complex systems
- Residual useful life prediction based on health and degradation modeling
- Detection, diagnosis, and prognostics methods of failure modes
- PHM systems design, performance assessment, and validation
- Predictive maintenance planning and theories
- PHM impact in reliability, availability and maintainability
- PHM applications for reliability and safety in various industries

### GUIDELINE and TIMELINE:

Only original manuscripts can be submitted, according to the 'Guide for Authors' published on *Reliability Engineering & System Safety* website <http://www.journals.elsevier.com/reliability-engineering-and-system-safety/>. As regards the online submission system of *Reliability Engineering & System Safety*, the authors are invited to follow the link "Submit your Paper", located in the main page of the Journal website, and submit manuscript to Article Type "SI:PHM Impact in Reliability" in *Reliability Engineering & System Safety*.

Please mention the name of the Special Issue in your cover letter. All manuscripts will be peer-reviewed in accordance with the established policies and procedures of the journal. The final papers will be selected for publication depending on the results of the peer review process and the reviews of the Guest Editors.

### Timeline:

- Submission portal open: 01 December, 2016
- Submission portal close: ~~31 August, 2017~~ **15 September, 2017**

### SPECIAL ISSUE EDITORS:

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