

## **Journal of Mechanical Science and Technology – Call for papers**

### **Special Issue: Prognostics and Health Management (PHM) in Mechanical Science and Technology**

Prognostics and health management (PHM) is a new engineering approach which enables real-time health diagnostics of a complex system under its actual operating conditions, as well as the prediction of its future state based on up-to-date information. The PHM discipline includes sensing technologies, failure physics, machine learning, modern (Bayesian) statistics, and reliability & maintenance engineering. The PHM is now widely explored in a variety of applications including manufacturing, automotive, railway, power plant, renewable energy, and heavy industry. To promote dissemination of cutting edge research papers submitted in the 2017 Asia Pacific Conference of Prognostics and Health Management (PHMAP17), Journal of Mechanical Science and Technology is now calling for papers for a special issue on Prognostics and Health Management (PHM) in Mechanical Science and Technology.

The topics of the special issue can include, but are not limited to:

- PHM design, including but not limited to monitoring, diagnostic and prognostic methods
- Big data analytics for PHM
- Machine & statistical learning for PHM
- Data driven prognostics under uncertainty
- Physics-based prognostics under uncertainty
- Condition based maintenance (CBM)
- Maintenance modeling and optimization
- Residual useful life prediction for complex mechanical systems.
- PHM applications to cyber-physical systems
- Case studies and applications of PHM to complex mechanical systems.

#### **Publication timeline:**

**Papers submitted for this issue will go through the regular review process, but will receive expedited treatment in processing**

- Paper submission: **August 31, 2017**
- First review notification: October 31, 2017
- Revised paper submission: December 15, 2017
- Final acceptance decision: February 1, 2018
- Publication of the special issue: March 31, 2018

\* Please send your manuscript to [info@phmap.org](mailto:info@phmap.org) for the submission.

#### **Special issue editors:**

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