

International Conference on Industrial Engineering and Systems Management

May 13-15, 2009, Montreal, Canada

Call for papers - Special Session on Machinery Health Monitoring, Diagnostics and Prognostics

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Session Description

As industries worldwide are undergoing a fundamental shift towards Condition Based Maintenance (CBM) to improve equipment availability and readiness at reduced operating cost throughout the system life cycle, advanced health monitoring, diagnosis, and prognosis models to monitor actual usage, assess component condition and system integrity in real-time or near real time, and schedule appropriate maintenance action only upon evidence of need are becoming more important. In this special session, research and application issues on machinery health monitoring, diagnostics and prognostics will be addressed. The session aims to bring together experts from industry, academia, and government in diverse application areas such as manufacturing, service, aerospace, transportation, automotive, energy, and industrial automation.

Recommended Topics

Researchers and practitioners are invited to submit complete original papers dealing with the following topics but are not limited to:

- Data-driven methods for anomaly detection, diagnosis, and prognosis
- Model-based methods for fault detection, diagnostics, and prognosis
- Health management system design and engineering
- Physics of failure modeling and simulation
- Health monitoring sensors and sensing
- Industrial applications
- Informed logistics
- Verification, validation, and maturation

Instructions to authors

Authors are requested to provide a full paper of 10 pages maximum, written in English. The full manuscript should be submitted in accordance with the template format of the conference (available at <https://symposia.cirrelt.ca/IESM09/en/Instructionstoauthors>)

Submission

The authors are requested to submit their draft papers online and select the proper special track or session at <https://symposia.cirrelt.ca/IESM09/en/Submission>.

Important deadlines

Draft papers and posters should be submitted by **November 15, 2008**

Authors will receive the acceptance notification by **February 15, 2009**

Final papers for presentation should be sent before **March 1, 2009**

For complete information, visit the IESM'09 Web Site at
<http://cirrelt.ca/IESM2009>

