
**The 13th International Conference on Quality, Reliability, Risk, Maintenance, and Safety Engineering
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Special Session: Identification and Classification Methods in Prognostic and Health Management

With the increasing volume of operating data, big data-based fault diagnosis and health management has been applied in various fields. However, diversity and volatility of fault modes constrain the performance of fault diagnosis and health management. Therefore, high-performance identification and classification methods are necessary to realize an effective fault diagnosis and health management, such as working condition classification and identification, health status identification, key component identification and optimization.

In order to provide more effective identification and classification methods to improve the prognostic and health management, this special session aims to discuss recent advances in identification and classification techniques. The list of topics includes, but is not limited to:

- Status identification and classification in health management
- Cluster analysis in health management
- Machine learning-based status identification and fault diagnosis
- Sensor-based status identification and real-time fault prognosis
- Importance-based key component identification and optimization

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