Recent Advances in Fault Diagnostics, Prognostics, and Intelligent Condition-Based Maintenance

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Message from the Collection Editors

This Special Issue aims at highlighting the recent trends, research and developments, applications, solutions, and challenges of fault diagnostics and prognostics in intelligent condition-based maintenance. All submissions will be peer-reviewed and selected based on both their novelty and relevance. Both theoretical and application-oriented contributions are welcome, together with review articles on specific subjects within the scope of this issue. Potential topics of interest include but are not necessarily limited to the following:

- Smart sensor systems applied to fault detection and diagnosis;
- Application of AI and big data analysis in diagnostics and prognostics;
- Data-driven, physics-based model, and hybrid approaches for diagnostics and prognostics;
- Digital twin-assisted condition monitoring;
- Wireless sensor networks and IIOT for remote condition monitoring applications;
- Advanced sensing and structural health monitoring;
- Decision making in intelligent condition-based maintenance.

Topical Collection

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Message from the Editor-in-Chief

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