Topical Collection

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

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.

Collection Editors

Dr. Hamed Badihi
Dr. Tao Chen
Prof. Dr. Ningyun Lu

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

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