Special Issue

Data-Driven Performance Monitoring and Management for Complex Manufacturing Processes

Message from the Guest Editors

Due to advanced sensing techniques, a massive amount of data are produced daily by manufacturing industrial activities. As a result, data-driven techniques aiming to make the best use of available data have received considerable attention in recent years, both in industry and academia. This Special Issue aims to provide a platform for researchers to report their recent findings and emerging research developments in data-driven performance monitoring and management for manufacturing processes, especially in process monitoring, fault diagnosis, machine-learning-relevant monitoring and management techniques, along with their applications. Potential topics to be covered:

- Advanced sensing/process monitoring methods;
- Data-driven fault diagnosis and root-cause analysis;
- Data-driven fault hazard evaluation;
- Machine learning methods with applications in performance monitoring;
- Data-driven fault-tolerant control methods;
- Key-performance-indicator-supervised monitoring and management;
- Advanced deep learning and intelligent decision making;
- Big data analytics and implementation;
- Cloud-edge collaborative performance optimization.

Guest Editors

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Deadline for manuscript submissions

closed (25 September 2023)

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Message from the Editor-in-Chief

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.

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