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Data-Driven Performance Monitoring and Management for Complex Manufacturing Processes

Guest Editors:

Dr. Kai Zhang

Department of Control Science and Engineering, University of Science and Technology Beijing, Beijing 100083, China

Dr. Zhiwen Chen

School of Automation, Central South University, Changsha, 410083, China

Prof. Dr. Kaixiang Peng

Department of Control Science and Engineering, University of Science and Technology Beijing, Beijing 100083, China

Deadline for manuscript submissions:

closed (25 September 2023)

Message from the Guest Editors

Dear Colleagues,

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:

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



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Special Issue



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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Department of Electrical and
Information Engineering,
Politecnico di Bari, Via Orabona
4, 70126 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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