Special Issue

Advanced Sensing and Machine Learning Techniques in Process Monitoring and Fault Diagnosis

Message from the Guest Editors

Over the past few decades, machine learning and artificial intelligence (ML/AI) techniques, such as the emerging deep learning methods, have attracted much attention in computer-based advanced manufacturing and prognostic and health management. A comprehensive information physical system based on advanced sensing and machine learning, however, is still missing in advanced manufacturing and fault diagnosis. Developing such a comprehensive diagnostics system requires novel developments related to intelligent information physical systems, advanced sensing techniques, deep analysis and sensor fusion, adaptability of artificial intelligence technology to complex environments, and specific working conditions.

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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.

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