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

Guest Editors:

Prof. Dr. Qi Zhou

School of Aerospace Engineering,
Huazhong University of Science &
Technology, Wuhan 430074,
Hubei, China

Prof. Dr. Zhen Hu

Department of Industrial and
Manufacturing Systems
Engineering, University of
Michigan-Dearborn, Dearborn, MI
48128, USA

Dr. Longchao Cao

School of Aerospace Engineering,
Huazhong University of Science &
Technology, Wuhan 430074,
China

Message from the Guest Editors

Dear Colleagues,

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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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

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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