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Sensors for Machine Condition Monitoring, Diagnostics, Prognostics and Maintenance

Guest Editors:

Prof. Dr. Janis Terpenney

Prof. Dr. Thomas Kurfess

Prof. Dr. Vittal Prabhu

Dr. Dazhong Wu

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Message from the Guest Editors

The focus of this Special Issue is on the application of both legacy and next generation sensors for machine monitoring, diagnostics, prognostics, and maintenance. The issue will also address advanced analytic techniques (e.g., physics based models, AI and ML) for machine monitoring if these topics are coupled with novel sensors concepts, designs and applications. Authors are encouraged to incorporate approaches that leverage high performance computing systems, as well as distributed sensor network operations at the edge, and in fog and clouds. Furthermore, of interest would be new decision-making enabled by sensing including real-time decision-making and operational policies. Research addressing both legacy operations (e.g., classical rotational systems) as well as new system types (e.g., renewable energy generation systems) are welcome.

Keywords: diagnostics, machine monitoring, prognostics, preventative and productive maintenance, condition-based maintenance, fault diagnosis



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Special Issue



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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

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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Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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