

## Special Issue

# Sensors for Machine Condition Monitoring, Diagnostics, Prognostics and Maintenance

### 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

### Guest Editors

Prof. Dr. Janis Terpenney

Prof. Dr. Thomas Kurfess

Prof. Dr. Vittal Prabhu

Dr. Dazhong Wu

### Deadline for manuscript submissions

closed (20 March 2025)



## Sensors

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*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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## About the Journal

### 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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### 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

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