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Sensors and Sensing Systems for Condition Monitoring

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Message from the Guest Editors

Condition Monitoring has made considerable progress in recent years, as a major component of machinery predictive maintenance in industry and transportation. The design of sensors and sensing systems for Condition Monitoring addresses multidisciplinary complex problems pertaining to, e.g., sensing materials, measurement techniques, electronics for hazardous environments, linear and nonlinear signal processing, data fusion, data mining, energy harvesting, sensor networks.

The aim of this Special Issue is to attract high-quality, innovative, and original works related but not restricted to the above mentioned research fields, including the following topics, relevant to Condition Monitoring:

- Condition Monitoring methods, technologies, and systems;
- Sensors, sensing materials and sensing systems;
- Electronic measurement systems for hazardous environments;
- Front-end electronics and signal conditioning;
- Signal processing techniques;
- Model and data driven prognostics;
- Artificial intelligence, machine learning, feature extraction, and pattern recognition;
- Data fusion and data mining;
- Energy harvesting;
- Sensor networks;
- Intelligent devices and components



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Special Issue



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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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