

Special Issue

Emerging Sensing Technologies for Machine Health State Awareness

Message from the Guest Editors

Modern society depends on the reliable and uninterrupted operation of complex machines such as aircraft, power plants, wind farms, and vehicles. Timely awareness of the health state of these machines is essential to prevent sudden failure and enable condition-based maintenance. Health state awareness relies on acquiring machine condition data, such as vibration, acoustic, temperature, stress, and rotating speed. Sensing technologies are fundamental for acquiring these data. In this Special Issue, we aim to collect the latest research progress on new sensing technologies for machine health state awareness.

Topics of interest include, but are not limited to, the following:

- New sensor designs such as piezoelectric sensors, infrared cameras, and fiber Bragg gratings;
- Sensor testing and calibration;
- Application of new sensing technologies for machine health monitoring;
- Unmanned aerial vehicle-based video monitoring;
- Sensory data processing;
- Multi-modality sensory data fusion.

For more information, please visit: mdpi.com/si/196226

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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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