

Special Issue

Smart Sensor Technology for Structural Health Monitoring

Message from the Guest Editor

This Special Issue seeks to further promote the innovation and application of smart sensor technology in the structural health monitoring of major equipment.

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

- Smart sensor systems for real - time monitoring of key components of major equipment;
- High - temperature and high - pressure resistant smart sensors for structural health monitoring of industrial equipment;
- Vibration and noise monitoring based on smart sensors in rotating machinery of major equipment;
- Wireless sensor networks for distributed monitoring of large - scale complex equipment structures;
- AI - driven data analysis and fault diagnosis algorithms for smart sensor data in major equipment;
- Smart sensors for fatigue crack detection and life evaluation of major equipment structures;
- Energy - efficient and low - power consumption smart sensor solutions for long - term monitoring of major equipment;
- Multi - sensor fusion technology in structural health monitoring of major equipment;
- Reliability verification and calibration methods for smart sensors in major equipment monitoring.

Guest Editor

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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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