

Special Issue

Anomaly Detection and Fault Diagnosis in Sensor Networks

Message from the Guest Editors

This Special Issue aims to collect high-quality research papers and review articles focusing on recent advances, technologies, solutions, applications and new challenges in the field of anomaly detection and fault diagnosis techniques tailored for sensor networks.

Potential topics:

- Anomaly detection algorithms in sensor networks;
- Fault diagnosis in sensor networks;
- Sensor networks as a tool for anomaly detection and fault diagnosis;
- Machine learning algorithms for anomaly detection in sensor networks;
- Artificial intelligence methods for improving accuracy in anomaly detection;
- Bayesian methods, statistical analysis and machine learning for identifying abnormal patterns in sensor data;
- Distributed algorithms and protocols for real-time anomaly detection in large-scale sensor networks;
- Adaptive fault diagnosis;
- Energy-efficient anomaly detection and fault diagnosis in wireless sensor networks;
- Uncertainty evaluation in anomaly detection algorithms and models;
- Diagnostic and prognostic models using sensor networks;
- Fault-tolerant sensor networks;
- In-sensor machine learning computing;
- Security aspects in anomaly detection.

Guest Editors

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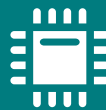
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Message from the Editor-in-Chief

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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