Special Issue

Sensor Data-Driven Fault Diagnosis Techniques

Message from the Guest Editor

Recent advancements in sensor technology and data analytics have significantly improved the accuracy, reliability, and responsiveness of fault diagnosis systems across various domains, including manufacturing, transportation, healthcare, energy, and smart infrastructure. As sensors become increasingly ubiquitous and capable of generating high-resolution, real-time data, sensor-driven approaches are emerging as a core enabler of intelligent fault detection, identification, and prediction. This Special Issue is highly relevant to the scope of *Sensors*, as it focuses on the pivotal role of sensor data in developing advanced fault diagnosis techniques. We invite high-quality submissions that present innovative methodologies, algorithms, and applications leveraging sensor data for fault diagnosis. Contributions may address theoretical foundations, algorithmic developments, data-driven modeling, and practical implementations in real-world systems.

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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