

Special Issue

Sensing Technologies in Industrial Defect Detection

Message from the Guest Editor

Industrial defect detection plays a crucial role in ensuring the reliability, safety, and sustainability of modern manufacturing systems. As industries move toward intelligent and autonomous production, sensing technologies have become fundamental to achieving precise, efficient, and automated quality control. Recent progress in sensing hardware, signal acquisition, and intelligent data analytics has significantly advanced the precision and automation of industrial inspection. The integration of multi-modal sensing, artificial intelligence, and adaptive monitoring systems is transforming defect detection from offline quality control to continuous, intelligent, and predictive inspection throughout the manufacturing lifecycle. This Special Issue aims to bring together original research and review articles on recent advances, technologies, applications, and challenges in the field of industrial defect detection based on sensing technologies.

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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