Special Issue

Tomographic and Multi-Dimensional Sensors

Message from the Guest Editors

Sensors typically provide key control information of critical parameters in manufacturing processes to meet environmental goals of maximum energy efficiency and minimised emissions, coupled with commercial goals of product quality and process plant utilisation. In some processes, a single-point sensor may be located at a location assumed to represent a whole space, but variations in materials and process operations may invalidate this assumption. Current powerful process control systems have the potential to optimise process operations, but only when supplied with the most complete state data. Multi-dimensional sensors offer this major capability. The Special Issue presents papers which progress this key aim in novel proposals for appropriate multidimensional sensing configurations, typically in terms of spatial and material property values. Such sensor configurations will include data representations to suit on-line process control requirements. They may offer novel configurations of individual or hybrid sensing elements. SE papers should focus on novel sensor arrangement and methodology proposals, rather than whole application proposals.

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Deadline for manuscript submissions

31 December 2025

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/173929

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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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