

Special Issue

Intelligent Sensors Technologies for Industry 5.0 and Smart Manufacturing

Message from the Guest Editor

In this domain of Industry 5.0, humans and machines work in an integrated. A more flexible and advanced manufacturing context is addressed by a combination of the strengths of humans and machines, leveraging automation and artificial intelligence to produce a highly productive manufacturing environment. High levels of productivity and efficiency can be achieved by combining the strengths of humans and machines within the context of effective data transfer and communication protocols. This integrative synergy between humans and machines allows the manufacturing processes to be more adaptable to suit the needs of production in the context of high levels of quality. The framework of Industry 5.0 requires effective data transfer, information flow, data conversion to knowledge over time, and assessment of production parameters with respect to continuing effectiveness and applicability. Intelligent data-driven sensors and controls thus have a significant role to play in Industry 5.0 as they will be the bearers of information from technical, economic, and procedural aspects, continually monitoring system effectiveness and improvement potential.

Guest Editor

Prof. Dr. Bhaskaran Gopalakrishnan
Industrial and Management Systems Engineering, West Virginia
University, Morgantown, WV 26506, USA

Deadline for manuscript submissions

closed (20 January 2025)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/186317

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



About the Journal

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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di
Bari, Via Orabona 4, 70126 Bari, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)