# Special Issue

# Signal Processing and Machine Learning for Sensor Systems

## Message from the Guest Editors

This Special Issue provides a forum for research on the processing of sensor signals, both at the edge and in data warehouses. Advances in the machine learning and signal processing of sensor data have led to tremendous leaps in signal classification, fault detection, speech recognition, and industrial control. Edge and embedded processing power, in combination with dedicated signal processing hardware and compact implementations of neural networks, has enabled machine learning at the edge, resulting in smart devices that can adapt to a user's needs. Additionally, processing sensor signals collected in data warehouses enables the application of sophisticated signal processing and deep machine learning algorithms. This Special Issue invites authors to submit works on the processing of sensor signals using machine learning techniques in edge and embedded devices as well as algorithms that process sensor signals stored in data warehouses.

- signal processing
- machine learning
- edge computing
- internet of things
- embedded systems
- data warehouses
- time series

## Guest Editors

Dr. Richard J. Povinelli

Dr. Cristinel Ababei

Dr. Priya Deshpande

## Deadline for manuscript submissions

20 October 2025

# 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
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 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)