

## Special Issue

# The Role of Fog and Edge Computing in Machine Learning-Based Applications

### Message from the Guest Editor

This special issue is to invite experts from multiple areas to contribute and share their ideas and findings to illustrate the role of edge and fog computing in the trend of Artificial Intelligence(AI), specially Machine Learning(ML)-based algorithms can be applied progressively and extensively to sensor-generated data in the domains of self-driving vehicles, personal assistance, image recognition for diagnosis, and in general as data-driven optimization systems and IoT applications to industry 4.0. A list of topics that would be welcome in this issue includes but not limits the following: Distributed privacy preserving algorithms  
Optimization of ML algorithms between edge, fog, and cloud node  
Sensor-generated data processing capacity  
Sensor-generated data inference and training operations  
Data sources security in wireless communications  
Performance models for fog/edge computing  
Management and orchestration of edge/fog resources

### Guest Editor

Dr. Roberto Beraldi

Department of Computer, Control and Management Engineering,  
Università degli Studi di Roma La Sapienza, Rome, Italy

### Deadline for manuscript submissions

closed (31 October 2023)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/81858](https://mdpi.com/si/81858)

*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

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

[sensors](https://sensors)





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
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

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)