

Special Issue

Sensors and Sensor Interface Integrated Circuit Design: Research and Applications

Message from the Guest Editors

A variety of environmental parameters are today monitored with integrated systems. These systems contain advanced integrated sensors together with associated electronics to be able to process suitably each sensor signal. The target is the implementation of as many functions as possible. The respective high volume monolithic circuits production on the same die with the sensors enables low-cost implementation for a wide applications space. These system-on-chip products include a huge variety of functions such as typical signal amplification, signal shaping and filtering, conversion of signals from analog to digital and vice versa, mixing, to more exotic and advanced neural networks and IoT-associated processing for advanced features and pattern identification. This Special Issue covers, but is not limited to:

- Sensors readout front ends;
- High and low temperature sensors interface electronics;
- Nuclear and space spectroscopy and pixel detectors electronics;
- Photodetectors, image sensors and associated circuitry;
- Neural networks and AI-IoT sensor and interface electronics design;
- Power management electronics and sensors;
- Power automotive and industrial system on chip.

Guest Editors

Dr. Thomas Noulis

Electronics Laboratory, Department of Physics, Aristotle University of Thessaloniki, 541 24 Thessaloniki, Greece

Prof. Dr. Stylianos Siskos

Electronics Laboratory, Department of Physics, Aristotle University of Thessaloniki, 541 24 Thessaloniki, Greece

Deadline for manuscript submissions

closed (20 November 2023)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/138491

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 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)