Special Issue

CMOS Sensors for Biomedical Monitoring and Diagnostics

Message from the Guest Editor

Advances in semiconductor technology have enabled the integration of more than ten billion transistors on a chip, following Moore's Law, whereby the number of elements on a fixed silicon die doubles every 18 months. This makes it possible to fabricate structures at a 3 nm. scale, which can detect and manipulate a single molecule. Current semiconductor technology is wellmatched to the complexity of biological systems and their parallel nature. Furthermore, semiconductor technology has offered cheap and small-yet still advanced—systems. The CMOS (complementary metal oxide semiconductor) is the main part of current integrated circuits and has developed mainly in the field of information and communication. It is now finding novel applications in the field of healthcare and environmental monitoring, as well as new sensing technology, which has discovered new phenomena. This technology has been rapidly developed in association with new biological technology. The goal of this Special Issue is to confirm its present status and discuss future prospects.

Guest Editor

Prof. Dr. Kazuo Nakazato

Department of Electrical Engineering and Computer Science, Nagoya University, Furo, Chikusa, Nagoya 464-8603, Aichi, Japan

Deadline for manuscript submissions

closed (31 July 2024)



Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



mdpi.com/si/152868

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

mdpi.com/journal/ sensors





Sensors

an Open Access Journal by MDPI

Impact Factor 3.5 CiteScore 8.2 Indexed in PubMed



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)

