

Special Issue

Recent Advances in Sensors and Sensing System Design

Message from the Guest Editor

Sensors are used throughout society, including industry, public life, environment, disaster prevention, medical care, etc., and their range is gradually expanding. Much research is ongoing to design and develop different types of sensors. However, most sensors have the following disadvantages: short dynamic range, long response time, a complex sensing mechanism, bulky form, poor reproducibility, poor reliability, poor selectivity, and cost. The performance of sensors is also widely conditioned by reading electronic circuit technologies. Because of this, special consideration must be given to interface circuits and systems and the difficulties associated with technology scalability and various technological integrations. To obtain the highest sensor performance, interface design has become crucial, particularly concerning the analog front-end and innovative and smart architecture that must be investigated and validated at the simulation and prototype levels. This Special Issue aims to examine possible solutions for a reliable sensor with interface circuits and systems design. It also aims to discuss and emphasize recent developments on this subject.

Guest Editor

Dr. Md. Rajibur Rahaman Khan

Research Institute of Engineering and Technology, Hanyang University,
Ansan 15588, Republic of Korea

Deadline for manuscript submissions

closed (30 June 2024)



Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/175047

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

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





Micromachines

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

You are invited to contribute research articles or comprehensive reviews for consideration and publication in *Micromachines* (ISSN 2072-666X). *Micromachines* is published in the open access format. Research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. As an open access journal, *Micromachines* is supported by the authors or their institutes by payment of article processing charges (APC) for accepted papers. We are pleased to welcome you as our authors.

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Ei Compendex, dblp, and other databases.

Journal Rank:

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

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the second half of 2025).