

## Special Issue

# Recent Trends of Home-Monitoring LiDAR Sensors

### Message from the Guest Editors

Light detection and ranging (LiDAR) sensors have attracted significant research interests for various applications. In particular, cost-effective and compact LiDAR can become crucial for the development of short-range home monitoring sensors in the urgently demanding applications of elder-care systems. Yet, current LiDAR sensors require a mechanical scanning system, and thus can hardly satisfy their stringent requirements. Hence, solid-state LiDAR sensors based upon semiconductors have recently been paid a great deal of attention as a key solution. Single-photon avalanche diodes (SPADs), silicon photomultipliers (SiPMs), and avalanche photodiodes (APDs) especially based on standard CMOS technologies are considered the most crucial devices for solid-state LiDAR sensors.

The goal of this Special Issue is to invite to the submission of high-quality, state-of-the-art research articles that deal with challenging issues in home-monitoring LiDAR sensors. We solicit original papers of unpublished and completed research that are not currently under review elsewhere.

---

### Guest Editors

Prof. Dr. Sung Min Park

Department of Electronic and Electrical Engineering, Ewha Womans University, Seoul, Republic of Korea

Dr. Myung-Jae Lee

Post-Silicon Semiconductor Institute, Korea Institute of Science and Technology, Seoul 02792, Republic of Korea

---

### Deadline for manuscript submissions

closed (20 October 2023)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/106070](https://mdpi.com/si/106070)

*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/  
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)