



*sensors*



an Open Access Journal by MDPI

## Optical Signal Processing Technologies for Communication, Computing, and Sensing Applications

Guest Editors:

**Prof. Dr. Jiangbing Du**

**Prof. Dr. Yang Yue**

**Dr. Jian Zhao**

**Prof. Dr. Yan-ge Liu**

### Message from the Guest Editors

This Special Issue will explore enabling technologies of signal processing methods for optical communication, optical computing, and optical sensing. Digital, electrical, and optical signal processing theories, integrated chips, devices, subsystems/systems, as well as future perspectives are all within the scope. Topics of interest include, but are not limited to, the following areas:

Deadline for manuscript  
submissions:

**closed (31 December 2022)**

- MDM/SDM signal processing methods and devices
- WDM/TDM signal processing methods and devices
- Optical AI: optical neural networking, neuromorphic
- Digital signal processing for sensing and communication
- Optical computing
- Ultrafast optics
- Nonlinear optics
- Microwave photonics
- Integrated signal processing circuits: photonics and electronics
- Optical processing for 3D/AR/VR
- Optoelectronic signal processing devices



[mdpi.com/si/78368](https://mdpi.com/si/78368)

# Special Issue



# sensors



an Open Access Journal by MDPI

## 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

## 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.

## 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 & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

## Contact Us

*Sensors* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[X@Sensors\\_MDPI](#)