



## Signal Processing for Wireless Sensor Networks and Communication System

Guest Editors:

**Dr. Andrew Zhang**

The Global Big Data  
Technologies Centre, University  
of Technology Sydney, Sydney,  
NSW 2007, Australia

**Prof. Dr. Kai Yang**

School of Information and  
Electronics, Beijing Institute of  
Technology, Beijing, China

**Dr. Zhitong Ni**

The Global Big Data  
Technologies Centre, University  
of Technology Sydney, Sydney,  
NSW 2007, Australia

Deadline for manuscript  
submissions:

**closed (30 March 2024)**

### Message from the Guest Editors

Dear Colleagues,

There is an increasing demand for advanced signal processing techniques for sensing and communications. Advanced machine-type communication techniques are needed to support massive wireless sensors with various delay and data rate requirements. Wireless sensors with more intelligence are also in demand. Integrated sensing and communication techniques, which integrate the two functions in one system, are also emerging as an attractive solution, achieving significant savings in terms of power consumption and device size and cost. We shall see an unprecedented revolution in our physical world for wireless devices and applications.

This Special Issue seeks innovative digital signal processing solutions to important sensing and communication problems. The scope of this Special Issue includes (but is not limited to):

- Integrated sensing and communications;
- Millimetre wave radar signal processing techniques;
- RFID sensing and localization;
- Machine learning and pattern analysis techniques for wireless sensors;
- Signal processing for machine-type communications.





*sensors*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Vittorio M. N. Passaro**

Department of Electrical and  
Information Engineering,  
Politecnico di Bari, Via Orabona  
4, 70126 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 and Instrumentation) / CiteScore - Q1 (Instrumentation)

## Contact Us

---

*Sensors* Editorial Office  
MDPI, Grosspeteranlage 5  
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](#)