



## Advanced Resonant Sensors and Signal Processing Techniques for IoT-Enabled Applications

Guest Editors:

**Dr. Giuseppe Campobello**

Department of Engineering,  
University of Messina, Messina,  
Italy

**Prof. Dr. Nicola Donato**

Department of Engineering,  
University of Messina, 98166  
Messina, Italy

**Prof. Dr. Giovanni Crupi**

BIOMORF Department, University  
of Messina, 98158 Messina, Italy

Deadline for manuscript  
submissions:

**closed (31 December 2022)**

### Message from the Guest Editors

Dear Colleagues,

Nowadays, resonant sensors based on Surface Acoustic Wave (SAW) and Bulk Acoustic Wave (BAW) devices are key components in several telecommunication systems and Internet of Things (IoT) applications.

The aim of this Special Issue is to publish high-quality research papers as well as review articles addressing recent advances on IoT applications based on resonant devices and sensors and, at the same time, to provide an opportunity for researchers to publish their latest research and developments in this context, including design, modeling, characterization, and signal processing techniques for resonant devices.

Topics of interest include but are not limited to:

- Signal processing and machine learning techniques applied to resonant sensors
- Resonant devices for wireless communications transceivers and telecommunication applications
- Health care applications based on resonant sensors
- Resonant sensors for industrial and automotive applications
- Development and characterization of resonant sensors
- Design and modeling of resonant devices for IoT applications





*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 (*Chemistry, Analytical*) / 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](#)