## **Special Issue**

# Sensors and Signal Processing Techniques for Non-Invasive Health Monitoring

## Message from the Guest Editors

The rapid advancement in non-invasive biomedical diagnostics and monitoring holds the potential to transform healthcare by offering portable and unobtrusive devices that provide real-time, continuous monitoring of human physiological conditions. Robust monitoring requires joint development of sensing technology and signal processing algorithms for extracting, analyzing, and interpreting complex biological signals, including but not limited to\(\text{electrocardiograms}\), electroencephalograms, and other physiological data. This Special Issue aims to highlight cutting-edge research and encourage innovation in the field of non-invasive biomedical diagnostics and monitoring, by covering a wide spectrum of technological and methodological advances. Topics of interest include, but are not limited to:

- The development of novel sensor technologies:
- Integration of machine learning models for diagnostic and monitoring applications;
- Strategies for minimizing power consumption;
- Algorithms for real-time processing in wearable and portable devices;
- Methods for ensuring signal integrity across diverse clinical and home environments;

### **Guest Editors**

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Dr. Alessandra Galli

Dr. Sarah Tonello

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Dr. Maria G. Signorini

### Deadline for manuscript submissions

25 March 2026



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## **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

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