



*sensors*



an Open Access Journal by MDPI

## Recent Advances in Wireless Power and Data Transfer System for Biomedical/Wearable/Healthcare Devices

Guest Editors:

**Prof. Dr. Byunghun Lee**

Department of Biomedical Engineering/Electrical Engineering, Hanyang University, Seoul, Republic of Korea

**Prof. Dr. Hyung-Min Lee**

School of Electrical Engineering, Korea University, Seoul 02841, Republic of Korea

Deadline for manuscript submissions:

**closed (20 September 2023)**

### Message from the Guest Editors

Biomedical devices have been successfully developed in a wide range of medical and neuroscience applications to treat disorders or monitor biological signals from patients. Wireless power transfer plays an essential role in receiving power from the outside so that biomedical devices can operate stably for a long time without replacing batteries. The data transfer techniques, called data telemetries, have been also widely used for biomedical applications with wireless power transfer to communicate with an external unit, control the parameters in the devices, and inform the monitoring status. In this Special Issue, we are focusing on recent advances in wireless power and data transfer systems for biomedical/wearable/healthcare devices. The topics covered in this Special Issue include but are not limited to theories and techniques for short- or long-distance wireless/data transfer, RF energy harvesting, and various applications of wireless power/data transfer for biomedical/wearable/healthcare devices. We invite contributions from researchers to submit their high-quality manuscripts for publication in this Special Issue.



[mdpi.com/si/109343](https://mdpi.com/si/109343)

**Special** Issue



*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](#)