

## Special Issue

# Continuous Real-Life Cognitive Impairment Assessment with Wearable Sensors

### Message from the Guest Editors

The scope of this Special Issue is to publish the most updated research in the field of wearables to enable monitoring and diagnostics of cognitive functionality and impairment over time in real-life environments while performing daily life activities. The topic focuses on utilizing existing or new wearable sensors, on advanced data analytics using machine learning, and on smart clinical applications that together can produce a continuous reliable measure of the subject's cognitive impairment. The sensing can be performed by, but is not limited to, wearable sensors that measure physiological parameters like electrocardiograms and respiration, ones that can assess subject activity like inertial sensors, and ones that assess directly the cognitive related brain signals, like wearable EEG sensors.

#### Keywords:

- Wearables
- Parkinson's
- Alzheimer's
- Depression
- Mental disease
- Anesthesia
- Feedback
- IMU
- EEG
- Behavior

---

### Guest Editors

Dr. Gaddi Blumrosen

Prof. Dr. Abraham Peled

Dr. Katsuyuki Sakuma

---

### Deadline for manuscript submissions

closed (1 December 2021)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/78986](https://mdpi.com/si/78986)

*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)



## 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

Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 Bari, Italy

---

### 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)