



*sensors*



an Open Access Journal by MDPI

## Continuous Real-Life Cognitive Impairment Assessment with Wearable Sensors

Guest Editors:

**Dr. Gaddi Blumrosen**

**Prof. Dr. Abraham Peled**

**Dr. Katsuyuki Sakuma**

Deadline for manuscript  
submissions:

**closed (1 December 2021)**

### Message from the Guest Editors

Dear Colleagues,

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



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

**Special** Issue



*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 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

## Contact Us

*Sensors* Editorial Office  
MDPI, St. Alban-Anlage 66  
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](#)