



*sensors*



an Open Access Journal by MDPI

## Advances in Sensor Technologies for Microgrid and Energy Storage

Guest Editors:

**Prof. Dr. Aman Maung Than Oo**

School of Engineering, Macquarie University, Sydney, NSW 2109, Australia

**Prof. Dr. Subhas**

**Mukhopadhyay**

School of Engineering, Macquarie University, Sydney, NSW 2109, Australia

Deadline for manuscript submissions:

**30 October 2024**

### Message from the Guest Editors

With the extensive application of rooftop photovoltaic cells for supplying electrical energy for domestic as well as industrial consumption, the micro-grid is an emerging technology that is supporting significant transformation in economies and social networks worldwide.

The purpose of this Special Issue is connect researchers from various areas, all working on solving the challenges present in the application of the smart micro-grid in energy storage and monitoring, via smart sensors and sensing technology, in order to make the power supply network robust and failsafe. The aim is to discuss the following topics: (i) the development of smart sensors, sensing technology, WSN and the IoT for micro-grid and energy storage applications; (ii) recently developed machine learning and data mining techniques that can be employed to address the challenges of micro-grid integration; and (ii) practical research directions in the machine learning and artificial intelligence community in the area of micro-grid and energy storage.



[mdpi.com/si/180050](https://mdpi.com/si/180050)

# 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](#)