

## Special Issue

# Wireless Sensor Networks for Activity Recognition in Smart Homes and Smart Cities

### Message from the Guest Editor

Wireless sensors networks (WSNs) are changing the world as we know it, and they have yet to truly reach their full potential. Many applications of WSNs are enabled through understanding and observing the behaviors of humans interacting with them, such as a smart home, a smart city, or any other type of smart environment. In particular, challenges related to the lack of ground truth, granularity of activities, multiple users, limited computation/energy level, and real-time/online constraints are still to be solved. In this Special Issue, we aim to gather significant contributions for WSNs and activity recognition in the context of smart homes and smart cities. The topics of interest include, but are not limited to, the following:

- Fine-grained activity recognition;
- Human-assisted activity recognition;
- Deep learning for WSN applications;
- Custom-made WSN infrastructure;
- DIY projects for homes and cities;
- Distributed activity recognition;
- Online and real-time activity recognition;
- Power and calculation optimization for WSNs.

---

### Guest Editor

Dr. Kévin Bouchard

Département d'Informatique et de Mathématique, Université du Québec à Chicoutimi, Chicoutimi, QC G7H 2B1, Canada

---

### Deadline for manuscript submissions

closed (31 August 2022)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/105878](https://mdpi.com/si/105878)

*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  
Department of Electrical and Information Engineering, Politecnico di  
Bari, Via Orabona 4, 70126 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)