

## Special Issue

# Indoor Positioning with Wireless Local Area Networks (WLAN)

### Message from the Guest Editor

Topics of interest include, but are not limited to, the following areas:

- Positioning technologies: RSS, TOA, TDOA, AOA, RTT, fingerprinting
- Tracking methods: Bayesian approaches, Kalman filters, particle filters
- Sensor fusion: inertial sensors, magnetometer, barometer, etc.
- Hybrid positioning solutions
- Complementing 5G positioning with WLAN-based systems
- Crowdsourcing methods for collecting fingerprints
- Simultaneous Localization and Mapping (SLAM)
- Fingerprint database compression
- Machine learning for WLAN-based positioning
- WLAN channel modeling for positioning
- WLAN channel measurements for positioning
- Seamless outdoor-to-indoor transition (e.g. from GNSS to WLAN)
- Floor detection methods
- 3D-positioning
- Optimal network configuration and access point deployment for positioning
- Location-based services
- Security aspects of WLAN-based positioning

---

### Guest Editor

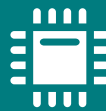
Dr. Jukka Talvitie

Department of Electrical Engineering, Tampere University, Tampere, Finland

---

### Deadline for manuscript submissions

closed (31 May 2022)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/61754](https://mdpi.com/si/61754)

*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)