



## Indoor Positioning Techniques

Guest Editors:

**Dr. Antonio Moschitta**

Department of Engineering,  
University of Perugia, 06125  
Perugia, Italy

**Prof. Dr. Jörg Blankenbach**

Geodetic Institute, RWTH Aachen  
University, 52074 Aachen,  
Germany

**Prof. Dr. Domenico  
Capriglione**

Department of Industrial  
Engineering, University of  
Salerno, 84084 Fisciano (SA), Italy

Deadline for manuscript  
submissions:

**closed (10 July 2022)**

### Message from the Guest Editors

Indoor positioning techniques (IPTs) are a strong enabler for various fields of applications, including location-based services, ambient assisted living, line traceability, simultaneous localization and mapping, telemanipulation, and Industry 4.0.

As a result of the reduced effectiveness of Global Navigation Satellite Systems (GNSS) in indoor environments, several IPS techniques were developed over the years. The approaches mentioned in the literature include image recognition techniques, inertial measurements, and the measurement of specific parameters of different signals, including ultrasounds, radio frequency waves, or magnetic fields. Various parameters may be measured, such as the direction of arrival, time domain quantities, and received signal strength.

This Special Issue targets novel research results for IPTs, focused mostly, but not exclusively, on sensor characteristics, node architecture and connectivity, design tradeoffs, positioning algorithms, and overall positioning and tracking performance.

- Indoor positioning
- Tracking
- Navigation
- Sensors
- Node and network architecture
- Sensor fusion
- Measurement principles
- Accuracy





an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Flavio Canavero**

Department of Electronics and  
Telecommunications,  
Politecnico di Torino, 10129  
Torino, Italy

## Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

## 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), CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Electrical and Electronic Engineering*) CiteScore - Q2 (*Electrical and Electronic Engineering*)

## Contact Us

*Electronics* 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/electronics](http://mdpi.com/journal/electronics)  
[electronics@mdpi.com](mailto:electronics@mdpi.com)  
[X@electronicsMDPI](https://twitter.com/electronicsMDPI)