



sensors



an Open Access Journal by MDPI

Topical Advisory Panel Members' Collection Series: Protocol and Optimization of Sensor Networks

Guest Editors:

Dr. Zhongjiang Yan

School of Electronics and Information, Northwestern Polytechnical University, Xi'an 710072, China

Prof. Dr. Ki-Il Kim

Department of Computer Science and Engineering, Chungnam National University, Daejeon 34134, Republic of Korea

Deadline for manuscript submissions:

20 October 2024

Message from the Guest Editors

Recently, we have seen a growing interest in the potential use of sensor networks, which offer new opportunities through the implementation of a sensor network protocol in many different applications. Various optimization methods, e.g., convex optimization, machine learning (ML) and artificial intelligence (AI), have been explored to determine how sensor networks work efficiently in different scenarios, e.g., machine type communications (MTCs) and unmanned aerial vehicles (UAVs).

This Special Issue, therefore, aims to collect together original research and review articles on the recent advances, technologies, solutions, applications and new challenges in the field of sensor network protocol and optimization.

Potential topics include, but are not limited to:

- Multiple access control (MAC) protocols and optimizations;
- Topology control and routing protocols and optimizations;
- Hybrid Wi-Fi, Bluetooth, and Zigbee networks;
- Car-to-car and infrastructure-to-car protocols and optimizations;
- Underwater sensor network protocols and optimizations;
- Sensor networks in medical and manufacturing industries.



mdpi.com/si/156076

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

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)