Special Issue

Applications of Wireless Communication Network Based on MIMO in Sensors

Message from the Guest Editors

The digital landscape has been significantly shaped by the evolution of wireless communication networks. Multiple-input multiple-output (MIMO) technology has emerged as a pivotal innovation to enhance data transmission rates and communication quality through multiple antennas at both the transmitter and receiver ends, which is regarded as a cornerstone of next-generation wireless communication systems. Integrating MIMO technology into these sensor networks allows for a significant increase in the volume of data that can be processed, the speed at which it can be transmitted, and the resilience against interference and noise. This Special Issue is dedicated to exploring the cutting-edge applications of MIMO in sensor-based wireless communication networks, focusing on real-world implementations, theoretical advancements, and the future of wireless sensor technology. By bringing together a diverse array of research, we hope to foster interdisciplinary collaboration and inspire innovative solutions in MIMO and sensors that will drive the advancements in wireless communication technology.

Guest Editors

Dr. Hongyuan Gao

College of Information and Communication Engineering Harbin Engineering University Harbin, Harbin 150001, China

Dr. Yumeng Su

Research Assistant, North Automatic Control Technology Institute, Taiyuan 030006, China

Deadline for manuscript submissions

28 February 2026

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/218484

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

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

MDPI

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
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 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)