

Special Issue

AI-Based 5G/6G Communications

Message from the Guest Editors

The rapid evolution of wireless communications and networking has supported the application of 5G and inspired the standardization process towards the 6G era. Artificial intelligence (AI) is playing an increasingly pivotal role not only in optimizing network operations, resource management, signal processing, and decision-making for mobile wireless networks but also motivating increasingly more applications other than communications to embrace the 5G/6G networks. This Special Issue on "AI-Based 5G/6G Communications" aims to bring together innovative research, practical applications, and future trends that explore the integration of AI techniques into 5G/6G communication networks. We invite original contributions that address key challenges, propose new frameworks, and demonstrate the potential of AI in next-generation communication systems.

Guest Editors

Prof. Dr. Lixin Li

Dr. Wensheng Lin

Prof. Dr. Qinghe Du

Dr. Claudio Marche

Deadline for manuscript submissions

closed (15 July 2025)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/225754

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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

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)