



Deep Learning and Artificial Intelligence in Wireless Communications Applications

Guest Editors:

Dr. Woongsup Lee

Department of Information and
Communication Engineering,
Institute of Marine Industry,
Gyeongsang National University,
Tongyeong 53064, Korea

Dr. Byungchang Chung

Defense ICT Convergence
Research Section, Electronics
and Telecommunications
Research Institute (ETRI),
Daejeon, Korea

Deadline for manuscript
submissions:

closed (25 May 2023)

Message from the Guest Editors

Dear Colleagues,

Ever since Guglielmo Marconi succeeded in transmitting data over a wireless channel, the inherent convenience of wireless communication technology has enabled it to exert an ever-increasing impact on our daily lives. The increasing popularity of wireless communication technology has resulted in the rapid advance of wireless technologies. These new technologies for wireless communication are likely to have diverse service requirements, such as extremely low delay, and complex system models, which makes it harder to properly manage them using conventional approaches. This leads to a new research paradigm, i.e., deep-learning- and artificial-intelligence-based wireless communications, which have gained a lot popularity due to their remarkable performance compared to traditional schemes. These new data-driven approaches have changed the paradigm of research to a learning-based approach where the scheme is designed autonomously observing data.

This Special Issue encourages the submission of high-quality, innovative, and original contributions covering topics regarding the application of artificial intelligence and deep learning in wireless communication systems.





sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Department of Electrical and
Information Engineering,
Politecnico di Bari, Via Orabona
4, 70126 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 and Instrumentation) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

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