Special Issue

AI-Enabled Techniques for Next-Generation Wireless Networks

Message from the Guest Editor

The proliferation of wireless communication has led to a dramatic surge in data traffic, presenting considerable challenges for current network infrastructures. Traditional approaches struggle to efficiently manage resources and adapt to dynamic conditions, necessitating innovative solutions. Integrating artificial intelligence (AI) into next-generation wireless network strategies presents promising avenues for addressing these challenges. AI enables intelligent decision making, resource optimization, and adaptive management, thereby enhancing network performance, reliability, and scalability. This approach aligns well with the growing demand for seamless connectivity, higher data rates, and diverse services in increasingly complex wireless environments.

"AI for Next-Generation Wireless Networks" actively employs AI methods to significantly enhance the performance, efficiency, and resource utilization of wireless communication technologies. This field encompasses a broad spectrum of research and development efforts aimed at integrating AI techniques into various facets of wireless networks.

Guest Editor

Dr. Ishtiaq Ahmad
6G Mobile Research Lab, Czech Technical University in Prague, 166 36 Prague, Czech Republic

Deadline for manuscript submissions

closed (30 April 2025)

Algorithms

an Open Access Journal by MDPI

Impact Factor 2.1
CiteScore 4.5

mdpi.com/si/201821

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

mdpi.com/journal/algorithms

Algorithms

an Open Access Journal by MDPI

Impact Factor 2.1
CiteScore 4.5

mdpi.com/journal/algorithms

About the Journal

Message from the Editor-in-Chief

Algorithms are the core of computational mathematics and computer science. The whole area has been considered from different perspectives, which has led to the development of several sub-communities. The aim is to bring together researchers and practitioners from different areas of computational mathematics and computer science and to offer a platform for interdisciplinary applications in different areas of science and technology. In this way, *Algorithms* may become a forum for the exchange of new stimulating ideas between the different sub-communities working in the area of algorithms and their applications and the presentation of high-quality novel algorithmic approaches.

Editor-in-Chief

Prof. Dr. Frank Werner
Faculty of Mathematics, Otto-von-Guericke-University Magdeburg, P.O. Box 4120, D-39016 Magdeburg, Germany

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, ESCI (Web of Science), Ei Compendex, and other databases.

Journal Rank:

JCR - Q2 (Computer Science, Theory and Methods) / CiteScore - Q1 (Numerical Analysis)