Special Issue

AI Algorithms for 6G Mobile Edge Computing and Network Security

Message from the Guest Editor

The advent of 6G networks brings a new era of wireless communications, integrating space, aerial, terrestrial, and undersea networks to support massive connectivity and multi-gigabit transmission rates. This evolution aims to provide ubiquitous Internet of Things (IoT) services for machines, mobile devices, and users with various quality-of-service (QoS) requirements while ensuring user privacy and robust network security. However, the proliferation of data traffic and the dynamic conditions of next-generation mobile networks present significant challenges in resource management, latency reduction, and security. Integrating artificial intelligence (AI) into 6G mobile edge computing emerges as a promising solution to these challenges. AI enables intelligent decision making, resource optimization, and adaptive management at the network edge, thereby improving performance, reliability, and scalability. By leveraging AI algorithms, we can process the vast amounts of unstructured data generated by resource-constrained IoT devices efficiently and securely, moving data-intensive tasks from cloud servers closer to the data source.

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2026)

Algorithms

an Open Access Journal
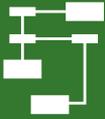by MDPI

Impact Factor 2.1
CiteScore 4.5

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Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

Editor-in-Chief

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