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

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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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