

Special Issue

Applications of Artificial Intelligence in Wireless Communications and Networks

Message from the Guest Editors

Wireless communications and networked systems are undergoing a significant transformation, promoted by the integration of artificial intelligence (AI) throughout all layers of communication infrastructure. From radio resource management and signal processing to end-to-end network optimization, AI is stimulating innovation. The integration of AI with emerging wireless technologies such as 5G and 6G has led to the development of intelligent and adaptive communication systems that are capable of functioning effectively in complex, dynamic, and data-rich environments. This Special Issue seeks high-quality research contributions and comprehensive reviews that examine recent advances and future directions in this rapidly evolving field. We welcome theoretical innovations, simulations, system designs, and experimental validations that demonstrate the transformative potential of AI in wireless communication systems across various applications.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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