

Special Issue

Algorithms, Architectures, and Applications for Future Wireless and Distributed Networks

Message from the Guest Editors

Through this thematic focus, this Special Issue seeks to highlight new theoretical directions and practical applications that will strengthen the robustness and sustainability of future wireless infrastructures.

The Special Issue covers (but is not limited to) the following topics:

- Communication-efficient algorithms for wireless and distributed learning;
- Energy-aware architectures for next-generation wireless networks;
- Federated and distributed deep learning over heterogeneous wireless infrastructures;
- Edge intelligence: integrating deep learning at the wireless edge;
- Low-latency architectures for 6G and beyond distributed systems;
- Adaptive routing and topology control in large-scale wireless networks;
- Security and privacy-preserving mechanisms for intelligent distributed networks;
- Applications of language model learning in wireless communication optimization;
- Sustainable architectures for green and resilient wireless infrastructures;

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About the Journal

Message from the Editor-in-Chief

Future Internet is a fast-growing journal devoted to rapid publications of the latest results in the general areas of computer networking/communications and information systems, with a focus on the Internet of Things, big data and augmented intelligence, smart systems (in terms of technologies, architectures, and applications), network virtualization, edge/fog computing, and cybersecurity. Both theoretical and experimental papers are welcome. Every year, *Future Internet* also features Special Issues dedicated to specific topics within the journal's scope.

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