Special Issue

AI-Native Wireless Communications and Sensing

Message from the Guest Editors

Wireless communication networks are undergoing a profound transformation driven by the rapid evolution of advanced artificial intelligence (AI) technologies. The emergence of large-scale AI models, including large language models, large vision models, and multimodal foundation models, is opening new opportunities for intelligent wireless systems. The integration of large-scale AI models enables advanced capabilities such as environment perception, wireless network optimization, autonomous decision-making, and cross-layer resource management, thereby reshaping the design paradigm of future wireless networks and facilitating integrated sensing and communication.This Special Issue aims to present and disseminate the latest research advances related to AI-driven wireless communications and intelligent networking. We welcome original research and review articles that explore the integration of AI techniques, particularly large AI models, into wireless communications, sensing technologies, and intelligent network management. For detailed information, please visit here.

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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