Special Issue

Artificial Intelligence Driven Software-Defined Networking Technologies for Next Generation Networks

Message from the Guest Editors

Artificial intelligence-driven software-defined networking (AI-SDN) technologies are transforming next-generation networks by greatly enhancing their agility, efficiency and intelligence. The integration of AI with SDN allows for dynamic network management, real-time optimization and predictive analytics, creating more responsive and resilient network infrastructures. This integration of AI and SDN not only simplifies network operations, but also meets the increasing demands of emerging applications such as IoT, 5G and edge computing, ensuring scalable and robust connectivity for future digital ecosystems. In the future, AI-SDN will play a crucial role in the development and deployment of 6G networks, which promise even higher speeds, lower latency and more reliable connections. The intelligent orchestration of resources through AI will be essential in managing the complex, high-bandwidth applications anticipated in 6G, such as immersive communications, immersive augmented reality and advanced autonomous systems, establishing AI-SDN as the backbone of next-generation connectivity.

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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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