

Special Issue

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

Message from the Guest Editors

SDN dynamically and efficiently manages resources to provide diverse services by leveraging controller intelligence and programmability. SDN allows network systems to orchestrate and estimate available resources, as well as dynamically adapt to the environment to maximize resource utilization. As a promising solution, artificial intelligence is becoming a successful way to boost the intelligence of SDN controllers. Machine learning and artificial intelligence (AI) techniques are effective for network communication adaptation. The controller, which has been trained with sophisticated AI and machine learning algorithms, can improve the provision of end-to-end (E2E) services, security, network slicing, and resource management. This Special Issue anticipates cutting-edge SDN technologies based on AI/machine learning techniques, covering new research findings with a diverse range of elements within intelligent SDN technology for next-generation networks.

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