



Emerging Trends and Challenges of Software-Defined Networking (SDN) Technologies

Guest Editor:

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Deadline for manuscript
submissions:

30 June 2024

Message from the Guest Editor

Dear Colleagues,

Software-defined networking (SDN) has been an emerging trend in the world of computer networking for some time. In simple terms, ‘SDN’ describes an approach to networking where the control plane is separated from the data plane. This separation allows for greater flexibility and scalability, as well as improved automation and programmability. Using SDN, the network administrators have the ability to manage network traffic and reconfigure network devices dynamically. The recent trends in SDN are network function virtualization (NFV) and software-defined wide-area network (SDN-WAN). The network function virtualization transforms the complex network functions embedded in the hardware into software instances running in the virtual infrastructure. SDN-WAN expands the centralized control across the wide-area network (WAN) to the cloud providers. The proper allocation of those network functions (NFs) and intelligent routing in SDN-WAN efficiently improves the quality of service (QoS).

Topics of interest include, but are not limited to:

- SDN-IoT;
- Security in SDN;
- IoT cloud platform based on SDN;
- SDN-NFV;
- SDN-WAN.





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