# **Special Issue**

## Software-Defined Networks: Existing Approaches, Development and Challenges

### Message from the Guest Editor

Software-defined networking (SDN) is an emerging network design and management paradigm that abstracts network information in a flexible way to tackle the complexity of traditional networks. In traditional network devices, roles are catalogued as independently working functional planes which interact with each other using proprietary application programming interfaces (APIs). To address the issue of the rapid configuration of network devices, SDN defines a methodology where the control plane can be centralized with the purpose of gathering information from the network devices. These devices can perform pure forwarding plane functions and communicate with multiple data planes implemented by different vendors.

Thus, this Special Issue will present the researcher community with the latest research on existing approaches, developments and challenges in SDN as an emerging technology that addresses network automation by enabling new ways of network communications and services through evolving networking devices and systems with adaptive and scalable functionalities.



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#### Deadline for manuscript submissions

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## Message from the Editor-in-Chief

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## Editor-in-Chief

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