# **Special Issue**

# SDN & NFV Developments and Advancements in IoT

## Message from the Guest Editors

The advent of the software-defined networking (SDN) and network virtualization function (NFV) paradigms have converted conventional communication architectures into a new networking era consisting of multiple benefits, such as global visibility and control. improved network management, and dynamic allocation of network resources. Therefore, this new reality will play a leading role in next-generation Internet of Things (IoT) applications, making it possible to minimize the required computing resources and optimize the entire management operation via the separation of forwarding and control planes. However, despite their functional advantages, both SDN and NFV raise security concerns that could lead to devastating consequences. A characteristic example is a possible single point of failure due to the non-availability of an SDN controller. Artificial Intelligence (AI) and especially deep learning (DL) and federated learning (FL) solutions can enhance the operation and resilience of SDN and NFV architectures. This Special Issue will cover a wide range of research problems related to SDN and NFV.

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## Deadline for manuscript submissions

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#### Editor-in-Chief

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