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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Message from the Editor-in-Chief

I would like to introduce the new, online, and open access journal *Telecom*. The purpose of *Telecom* is to publish high-quality research papers as well as review articles that address recent advances in communications technology. We invite researchers to contribute original papers describing applications and experiences in emerging trends of all fields of telecommunications engineering. *Telecom* also welcomes Special Issue proposals from academics and industrial researchers. We aim to facilitate more collaboration between scientists and engineers around the world, such that they will produce their innovative ideas and submit their cutting-edge technologies to *Telecom*. We anticipate the receipt of your contributions to *Telecom*, and we welcome your comments and ideas on how to improve this journal.

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