



telecom

an Open Access Journal by MDPI

SDN & NFV Developments and Advancements in IoT

Guest Editors:

Dr. Panagiotis Sarigiannidis

Department of Electrical and
Computer Engineering, University
of Western Macedonia, 50100
Kozani, Greece

psarigiannidis@uowm.gr

Dr. Thomas Lagkas

Department of Computer
Science, International Hellenic
University, 65404 Kavala Campus,
Greece

tlagkas@cs.ihu.gr

Deadline for manuscript
submissions:

closed (1 October 2021)

Message from the Guest Editors

Dear Colleagues,

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.



mdpi.com/si/63616

Special Issue