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HOME » SERIES ON NETWORK SOFTWAREZATION & ENABLERS

SERIES ON NETWORK SOFTWAREZATION & ENABLERS

Series Topic

CALL FOR PAPERS 2nd Edition

The architectures of mobile networks (both core and radio access networks), fixed networks, and service delivery platforms are subject to an unprecedented techno-economic transformation. This trend, often referred to as Network Softwarezation within an ever-growing community of researchers in both academia and industry, will yield significant benefits in terms of reducing expenditure and operational costs of next generation (5G and beyond) networks.

The key enablers are Network Function Virtualization, Software-Defined Networking, and Cloud, Fog, and (mobile/multi-access) Edge Computing. These technologies are still at their infancy. They introduce significant technical challenges that the research community is tackling. When they are integrated to enable fully programmable, flexible, service/vertical-tailored, and automated end-to-end networks (i.e., network slices), the challenges become more significant. The technical challenges pertain to the overall process, network slice instantiation and maintenance, slicing over multi-domains (i.e., both administrative and technology), orchestration and allocation of shared and isolated resources (i.e., computing and storage capacity, virtualized network functions, networking resources, and physical radio resources), and communication interfaces amongst different network slices along with supporting algorithms and mechanisms. The concept of network softwarezation is expected to serve diverse services and verticals, including, but not limited to, Tactile Internet of Things, Pervasive Robotics, Self-driving, Immersive communications, Industry 4.0, and Augmented Reality.

We invite high-quality submissions to the IEEE JSAC series on network softwarezation and enablers. The first issue of the series will be published in April 2018, followed by a number of other issues to be scheduled in the period of 2018 – 2020. We are seeking papers which have not been published before and are not currently under review by any journal. The scope of this series is papers in the general arena of network softwarezation, specifically on, but not limited to, the following topics:

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HOME

- ◀ CURRENT ISSUE
- ◀ CALL FOR PAPERS
- ◀ SUBMIT A MANUSCRIPT
- ◀ EDITORIAL BOARD
- ◀ REVIEWER GUIDELINES
- ◀ GUEST EDITOR INFO