

Special Issue

Network Slicing for 5G and Beyond

Message from the Guest Editors

Network slicing is set out to address crucial needs of 5G and beyond, including support for multi-service provisioning and multi-tenancy in virtualized infrastructures. Network slices essentially comprise bundles of computing, storage, and network resources, which are provisioned and managed in a unified manner. A network slice can be tailored to the needs of a particular service or traffic class, with examples in the context of 5G being enhanced mobile broadband (eMBB), ultra-reliable low-latency communications (URLLC), and massive IoT (MIoT). Network slicing has also found traction in the domain of edge computing, facilitating the deployment of cloud-native applications, such as location-based services. In order to capitalize the gains from network slicing, it is necessary to have the ability to provision, manage, and orchestrate network slices at large scale, and among different and potentially heterogeneous 5G infrastructures. This raises the need for slicing orchestration architectures and platforms, as well as APIs for their interoperability with virtualized infrastructure managers and service orchestrators.

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