Wireless Communications and Mobile Computing

Special Issue on

Slicing in Modern Cellular Networks

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One of the basic assumptions of the 5G network architecture is network slicing. It enables, as a result of creation of logical networks (slices), simultaneous optimization of hardware resources and the ability to offer networks as a service. The ability to create virtual networks, dedicated to different users or services, will then allow efficient dimensioning and management of allocated resources to be effectively optimized.

Potential topics include but are not limited to the following:

- Identification of future 5G slices and their requirements
- 5G logical network dimensioning algorithms
- Resource management algorithms in logical 5G networks
- Analysis and modeling of 5G multiservice logical networks
- Virtualization of 5G network components
- Modeling of end-to-end connections in logical 5G networks
- Cloud RAN
- Hybrid architectures of 5G with other wireless technologies (e.g., SDN/NFV satellite networks)
- Virtualization in 5G networks for fog computing applications
- Standards and resource description languages for virtual wireless networks
- Service composition from heterogeneous physical resources
- Network management and security in the virtualized domain
- Standardization on virtualized 5G infrastructure and modules

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