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.

Guest Editors

Dr. Panagiotis Papadimitriou
University of Macedonia, Greece

Dr. Lefteris Mamatas
University of Macedonia, Greece

Dr. Kostas Katsalis
Huawei Technologies

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Journal of Sensor and Actuator Networks
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jsan@mdpi.com

mdpi.com/journal/jsan

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I encourage you to contribute research and comprehensive review articles for publication in Journal of Sensors and Actuator Networks (JSAN), an international, open access journal which provides an advanced forum for research findings in areas of sensors and actuators. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sensors and actuators and fostering applications of sensor-based measurements and effective actuator incorporation.

Editor-in-Chief

Prof. Dr. Lei Shu
1. College of Smart Agriculture (Artificial Intelligence), Nanjing Agricultural University, Nanjing 210031, China
2. School of Engineering, College of Science, University of Lincoln, Lincoln LN6 7TS, UK

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