Special Issue

Network Slicing

Message from the Guest Editors

Network slicing, as the most significant enabling technology of the 5G era, allows multiple logical networks (network slices) to share the same telecommunication network infrastructure. It brings to 5G networks enhancements in flexibility, resource efficiency, and security; and thereby identifies 5G with a capability of specialization with respect to highly heterogeneous service types. We solicit original papers in areas including but not limited to:

- Architectural design of network slicing for industrial verticals;
- End-to-end network slicing;
- Energy efficiency of sliced networks;
- Machine learning and artificial intelligence for network slicing;
- Network slicing framework for the integration of terrestrial and non-terrestrial networks;
- Network slicing with heterogeneous radio access technologies;
- New business models in network slicing;
- Privacy and security in network slicing;
- Resource provisioning, orchestration, and management for network slicing;
- Service-level agreement design for sliced networks;
- Sliced network operation and management;
- Technologies of software-defined networks and network function virtualization.

Guest Editors

Dr. Bin Han

Prof. Dr. Simon Pietro Romano

Prof. Dr. Patrick Seeling

Deadline for manuscript submissions

closed (30 November 2022)

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About the Journal

Message from the Editor-in-Chief

Network provides full coverage of all topics of interest involved in the networking area. The purpose of this journal is to bring together researchers, engineers, and students from academia and industry to present novel ideas and solid research about the theoretical and practical aspects in the application domains of communications and networks. The primary focus of the journal is on the analysis, modeling, design, simulation, and implementation of networks. This journal will also serve to attract research concerning applying networking architectures and scenarios to emerging research topics such as Internet of Things (IoT), edge computing, distributed ledger technology, among others.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 26.5 days after submission; acceptance to publication is undertaken in 5.7 days (median values for papers published in this journal in the first half of 2024).

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