Special Issue

Knowledge-Defined Cloud-Native Networks: Applying Al and Cloud-Native Principles to Next-Generation Wireless Networks

Message from the Guest Editors

The adaption of cloud-native virtualization techniques for wireless network functions using containerization technology such as Docker and the evaluation of Alenabled microservices networking architecture for next-generation wireless networks, e.g., 5G and beyond, remains unexplored. In other words, minimal research is available. This Special Issue encourages authors from academics and industry to submit their novel contributions related to advancements made in using Al and cloud-native techniques for next-generation wireless technologies.

The topics of interest include but are not limited to:

- Integration of network slicing and MEC
- Application of AI to manage next-generation wireless networks
- Adaption of cloud-native principles for nextgeneration wireless networks
- Advanced virtualization techniques for wireless networks
- Novel networking architectures
- Cloud-native 5G core
- Application of containers in 5G and beyond wireless networks
- Al for the management of 5G network functions
- MEC services migration
- Network slice mobility
- Connected and autonomous vehicles
- Computational offloading

Guest Editors

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