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Integration of Optical and Satellite Communication Systems into 5G Edge Networks

Guest Editor:

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Message from the Guest Editor

This Special Issue focuses on the optical and satellite communication systems with cloud-native technology and AI/ML in the context of 5G edge networks. The advent of 5G aims to address these challenges by providing high data rates, low latency, on-demand resource allocation, network scaling, and automation.

This Special Issue invites research contributions that explore the integration of optical and satellite communication systems with cloud-native technology and AI/ML in 5G networks. Relevant topics include, but are not limited to, the following:

- Optical and satellite communication technologies in 5G edge networks;
- Cloud native architectures and containerization in 5G infrastructure;
- Orchestration and management of optical and satellite resources in cloud native environments;
- AI/ML techniques for network optimization, prediction, and anomaly detection in 5G edge networks;
- Integration of AI/ML models with optical and satellite communication systems
- Edge computing and distributed AI in satellite, optical and 5G networks;



and etc.



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