Machine Learning in the Era of Computing and Network Integration

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Deadline for manuscript submissions:
31 July 2021

Message from the Guest Editors

In this Special Issue, we will focus on ML-enabled networking and computation and intend to explore novel networking and computation resource provision, dynamic network operations, and self-managed networks to pave the way toward autonomous networks.

- ML-aided network performance monitoring, telemetry services
- Novel data plane technologies, network infrastructure designs
- Network survivability, availability-aware service provisioning
- Resource virtualization in cloud and network integration
- Service orchestration and control architecture
- SDN controller embedded with AI engine
- Cloud computing and edge computing cooperation
- AI assistant network operation method
- AI-based failure diagnosis algorithm
- Autonomous routing crossing multi-domain networks
- Interoperability and optimization between computing resources and transport resources
- Security in cloud and network integration.

mdpi.com/si/62289

Special Issue