

Special Issue

Design and Optimization of Scheduling and Resource Management in Reliable Optical Networks

Message from the Guest Editor

The scope includes advanced modeling, optimization, and control methods that improve survivability, fault tolerance, and service continuity. Topics of interest encompass AI- and ML-enabled network management, zero-touch operation, multi-layer orchestration, and energy-efficient scheduling strategies. Contributions addressing hybrid optical–wireless systems, optical data center interconnects, and quantum or photonic network paradigms are also encouraged. This Special Issue aims to bring together researchers and practitioners to share recent advances that enable the next generation of autonomous, secure, and sustainable optical networking infrastructures.

Guest Editor

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Editor-in-Chief

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