



Optical Fiber Communication Systems and Networks

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Optical fiber communication has been a disruptive technology, enabling fast and reliable communication over long distances. Today, the explosion of data traffic brings challenges and opportunities for change in optical networks. This Special Issue aims to provide a comprehensive platform for relevant researchers, engineers, and industry players to share their latest discoveries, advances, and applications. This Special Issue covers a wide range of topics related to optical fiber communications, including but not limited to:

- Architecture and design of optical networks;
- Optical network switching technologies and protocols; Optical network sensing technologies and sensing systems;
- Flexible and elastic optical fiber networks;
- Network convergence, including Access, Metro, 5G/6G mobile, and distributed edge computing;
- Photonic integrated circuits and devices;
- High-speed optical communication systems and technologies;
- Distributed networks; Optical access networks;
- Machine learning and artificial intelligence (AI) in optical networks;
- Data center networks for cloud and edge computing;
- New trends and future directions in optical fiber communications.

