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Novel Advances in Optical Communications

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Message from the Guest Editors

Dear Colleagues,

Since the introduction of low-loss optical fiber and continuously working semiconductor lasers in 1970, optical communication has experienced explosive growth in just a few decades. Today, optical fiber communication technology has become the most important part of the world's information and communication network and has wide application prospects in many fields such as ultra-long-distance telecommunications, mobile communication networks, data centers, cloud computing, radio and television, and military. To provide high-speed, low-delay, large-capacity, low-noise, and low-loss transmission services to meet the ever-growing demand for data communication, optical communication technology is also developing toward the direction of large capacity, low complexity, high flexibility, high reliability, and low cost. In recent years, a large number of emerging technologies and schemes have emerged that constantly promote people's understanding of the boundaries of communication technology. The objectives of this Special Issue are to report the advances in optical communications.