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Introduction

The advent and progress of novel optoelectronics devices and components, including nano-photonics devices and integrated optics, allow achieving novel optical signal processing systems and subsystems. This would lead to the realization of advanced optical communication systems and networks, optical measurement technologies, and other novel applications. The development of these techniques will facilitate and expedite the implementation of optical system in all aspects and represent an impressive feat of science and technology in these fields.

The topics of the Optical Communication and Optical Signal Processing conference within the Optical Instruments and Technology 2019 symposium covered integrated photonic, novel optoelectronic devices and technologies, emerging optoelectronic system and subsystems, and their applications in optical signal processing, optical measurement, sensing, and optical communication systems and networks. More than 21 presentations were accepted as part of this conference, all of which reported the state-of-the-art progresses, results, and achievements in the relevant communities.

Jian Chen
Yi Dong
Fabien Bretenaker

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