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Advances in Integrated Photonics for Communication and Sensing Applications

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Deadline for manuscript submissions:
closed (25 February 2022)

Message from the Guest Editors

Dear Colleagues,

Emerging applications such as cloud-based storage services, high definition streaming services, machine-to-machine communications, and 5G radio networks are fueling the need for faster, low latency and bandwidth-efficient optical networks. The requirements of these applications include increased capacity and reduced cost, power consumption, footprint, and complexity. Therefore, there is a growing trend in developing integrated optoelectronic devices to meet the above-mentioned requirements.

The need for rapid and accurate detection of analytes is also increasing for environment monitoring, food and drug quality control, and medical diagnosis. Significant advances, driven by the need to reduce cost, increase portability, and provide rapid results, have been made in the field of sensing by leveraging integrated photonics.