



Photonic Devices for Optical Signal Processing

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Message from the Guest Editors

Recent progress in the field of photonic devices helps to establish new prospects in optical signal processing which appear to have impressive performance in the areas of optical/RF communications, quantum communications, optical computing, and optical sensing. This Special Issue seeks to highlight the recent advances and trends in developing state-of-the-art techniques in optical signal processing. Areas of interest include, but are not limited to, the following:

- Nonlinear photonic devices in photonic integrated circuits, semiconductor devices, novel material platforms, and highly nonlinear fibers;
- Progress on nonlinear optical sources (optical frequency combs; mode-locked lasers and supercontinuum; and applications in optical communications, data centers, and sensing);
- Photonic-based time–frequency techniques and Fourier techniques for communications and information processing;
- Ultrafast optical switching for optical communication networks, optical computing systems, and quantum information processing;
- Reconfigurable and programmable photonic systems and subsystems for monitoring and controlling the optical signals.





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Message from the Editor-in-Chief

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