Special Issue

Photonic Devices for Optical Signal Processing

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.

Guest Editors

Dr. Yuanfei Zhang

Department of Electronic Engineering, Center for Advanced Research in Photonics, The Chinese University of Hong Kong, Shatin, Hong Kong

Dr. Qilai Zhao

Institute of Optical Communication Materials, South China University of Technology, Guangzhou, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

Editor-in-Chief

Prof. Dr. Nelson Tansu
School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

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