Special Issue

Optical Signal Processing Technologies for Communication, Computing, and Sensing Applications

Message from the Guest Editors

This Special Issue will explore enabling technologies of signal processing methods for optical communication, optical computing, and optical sensing. Digital, electrical, and optical signal processing theories, integrated chips, devices, subsystems/systems, as well as future perspectives are all within the scope. Topics of interest include, but are not limited to, the following areas:

- MDM/SDM signal processing methods and devices
- WDM/TDM signal processing methods and devices
- Optical AI: optical neural networking, neuromorphic
- Digital signal processing for sensing and communication
- Optical computing
- Ultrafast optics
- Nonlinear optics
- Microwave photonics
- Integrated signal processing circuits: photonics and electronics
- Optical processing for 3D/AR/VR
- Optoelectronic signal processing devices

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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