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Optical Network and Optical Communication Technology with Sensors

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Message from the Guest Editors

Due to the advantages of high bandwidth, low loss, and strong anti-interference, optical communications and networks are the key technologies to realize large-capacity and long-haul data transmission in the big data era. However, optical communications and networks are developing rapidly in the directions of hardware resource diversification, transmission system flexibility, and network function virtualization. Moreover, the existing optical communication systems encounter severe challenges in accurate monitoring, dynamic detection, real-time measurement, and smart control.

With the rapid development of sensors, applications of sensor have been spread in various areas, as well as in optical communications and optical networks. Facing the above challenges, sensor techniques have the potential to develop more powerful capabilities of monitoring, detection, measurement, identification, perception, and collection in both physical layers and network layers of optical communications.

This Special Issue seeks innovative works on a wide range of research topics, including all types and applications of sensors in optical communications and optical networks.

Special Issue



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Message from the Editor-in-Chief

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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