

Special Issue

Photonics Based Sensing and Detection

Message from the Guest Editors

Sensing and detection is an ever-growing research area that is relevant in a large number of important applicative fields, including medical diagnostics, environmental monitoring, traffic and automotive industries, food safety, national defense, space flight and aviation. Photonic technology has been widely used for sensing and detection during the last decade. By utilizing different characteristics of the photon, including the amplitude, phase, time, frequency, space, and so on, signals can be detected and processed in multiple dimensions, which also changes the method and performance of signal processing in sensing and detection. This Special Issue will explore enabling technologies for optical sensing and optical detection. Signal processing theories related to optics, optoelectronic integration, photonic devices, subsystems/systems, techniques as well as future perspectives are all within the scope.

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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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