

Special Issue

Advances in Optical Sensing and Actuation: Devices, Systems and Applications

Message from the Guest Editors

This Special Issue will explore advances in optical sensing and actuation technologies and showcase how they can revolutionize various sectors of technology. Contributions may explore the design of new devices, systems or applications that are related to sensing and/or actuation, including but not limited to photonic components suitable for both large-scale and miniature sensing systems, innovations in optical materials for enhanced sensitivity and accuracy, communication technologies suitable for use in sensing/actuation systems, nanofibers used in biological settings for in vivo light transmission, medical and health devices such as neuronal stimulators and neuronal activity detectors, optical brain interfaces, medical imaging/sensing devices, specialized optical stimulating and detecting devices used in neuroscience research, in vivo substance sensing, detection, alert generation systems and security applications. By focusing on these cutting-edge advancements, this Special Issue will provide a comprehensive overview of the current state of the art and the impact of optical technologies in the realm of sensing and actuation.

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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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