

Special Issue

Advancements in Optical Sensing and Communication Technologies

Message from the Guest Editor

Optical sensors and communication have attracted increasing attention from academia and industry in the past several decades. The growing demands in fields such as the biological, medical, structural health monitoring, and geophysical science fields have accelerated the research on and development of optical sensors with high sensing performance. However, optical sensors still encounter challenges; for example, innovative ideas are needed to achieve performance enhancements including high measurement accuracy, high spatial resolution, long sensing range, and large dynamic sensing range. Meanwhile, optical communications, including communications through optical fiber, through free space, under water, and in outer space have met an increasing capacity crisis. We hope to collect innovative ideas and schemes to address the challenges and to provide new opportunities.

Guest Editor

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