Special Issue

Ultrafast Optical Imaging

Message from the Guest Editor

Optical imaging is an indispensable tool in understanding our world and enabling technological advancement. However, conventional imaging systems have their imaging speeds limited by the frame rate of the semiconductor sensors. In recent years, we have seen a remarkable boom in the development of ultrafast optical imaging techniques, from basic hardware components and algorithm innovation to novel system-level designs. These techniques find exciting applications in a vast range of fields, from physics, material science, and life science to an industrial deployment. In addition, people are constantly pushing the boundaries of ultrafast imaging, including a higher imaging speed, new functionalities, smaller systems, and smarter algorithms. This Special Issue aims to cover recent progress in ultrafast optical imaging technology. We encourage submission of original research articles that develop new methods, systems, and algorithms in ultrafast optical imaging and apply ultrafast optical imaging to observe and study fast dynamics in different fields.

Guest Editor

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Deadline for manuscript submissions

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Photonics* (ISSN 2304-6732). *Photonics* is an online open access journal covering both the fundamental and applications of optics and photonics. *Photonics* strives to provide an avenue to allow authors to disseminate their scientific findings—both theoretical/ simulations and experimental works—in highly accessible peer-reviewed journal publications. The manuscript in *Photonics* will be handled with quick turnaround production processing time. We welcome authors to submit their manuscripts for publications in *Photonics*. Our goal in *Photonics* is to enable fast dissemination of high impact works to the scientific community.

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