Special Issue

Advances in Computational Imaging: Algorithms, Technologies, and Applications

Message from the Guest Editors

Computational imaging has emerged as a transformative approach, enabling breakthroughs in optoelectronic imaging technology by integrating optical innovations with advanced computational algorithms. Among these, the rapidly advancing fields of single-pixel imaging and scattering imaging have demonstrated remarkable potential in overcoming challenges posed by complex environments and hardware limitations. This Special Issue welcomes original research articles, letters, brief communications, and reviews involving state-of-the-art computational imaging and optoelectronic imaging techniques. Topics include but are not limited to the following:

- Single-pixel computational imaging;
- Single-pixel computational holography;
- Single-pixel quantitative phase imaging;
- Single-pixel computational microscopy;
- Single-pixel information transmission;
- Scattering imaging;
- Super-resolution scattering imaging;
- Invasive/noninvasive scattering imaging
- Tracking through scattering media;
- 2D/3D imaging or measurements with a scattering lens.

We look forward to receiving your contributions.

Guest Editors

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Message from the Editor-in-Chief

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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