Special Issue

Computational Imaging: Progress and Challenges

Message from the Guest Editors

Computational Imaging Technology refers to a novel imaging method. It is different from the“what you see is what you get” information acquisition and processing methods of traditional optical imaging. Indeed, information utilization and interpretation capability can be superior to traditional imaging, since it finally enables the realization of the “higher (resolution), longer (detection range), and larger (optical field of view)” requirements of photoelectric imaging. This Special Issue invites manuscripts that explore the recent advances in “Computational imaging”. All theoretical, numerical, and experimental papers and reviews are welcome. Topics include, but are not limited to, the following:

- Principles and theories of computational imaging;
- Scattering imaging and non-field-of-view imaging;
- Three-dimensional imaging;
- Polarization imaging;
- Holographic imaging;
- Computational spectral imaging;
- Single photon imaging;
- Micronano Optics and computational imaging;
- Biomedicine and computational imaging;
- Artificial intelligence and computational imaging;
- Frontier problems in computational imaging.

Guest Editors

Prof. Dr. Haofeng Hu

Dr. Pingli Han

Dr. Bofan Song

Deadline for manuscript submissions

closed (10 March 2024)

hv

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/si/179129

Photonics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
photonics@mdpi.com

mdpi.com/journal/photonics

MDPI

Photonics

an Open Access Journal by MDPI

Impact Factor 1.9
CiteScore 3.5

mdpi.com/journal/photonics

MDPI

About the Journal

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.

Editor-in-Chief

Prof. Dr. Nelson Tansu
School of Electrical and Electronic Engineering (EEE), The University of Adelaide, Adelaide, SA 5005, Australia

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q2 (Instrumentation)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.8 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).