Special Issue

Recent Trends in Computational Photonics

Message from the Guest Editors

Computational photonics plays an indispensable role in the study of fundamental optics, and in applied branches such as photonic device design, development, and optimization. This Special Issue aims to advance, enhance, and broaden the combination of algorithms and techniques in computational photonics in the context of the rapid development of optoelectronics technology and industry. The current Special Issue covers all aspects of computational photonics, with particular emphasis on the multi-scale modelling and optimization of photonic devices. Topics include, but are not limited to:

- Multi-scale modeling of photonic devices;
- Finite element algorithm in photonic modeling;
- FDTD/FEFD algorithm in photonic modeling;
- Optimization algorithm in photonics;
- Eigen-mode expansion algorithm in photonic modeling;
- Fourier modal algorithm in photonic modeling;
- Domain decomposition algorithm in photonic modeling;
- Field/ray-tracing algorithm in photonic modeling;
- Computational adaptive optics;
- Computational imaging/displays;
- Computational inverse scattering.

Guest Editors

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Deadline for manuscript submissions

closed (20 December 2023)

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.

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