

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

Dr. Yuntian Chen

School of Optical and Electronic Information, Huazhong University of Science and Technology, Wuhan 430074, China

Dr. Wei E. I. Sha

College of Information Science and Electronic Engineering, Zhejiang University, Hangzhou 310058, China

Deadline for manuscript submissions

closed (20 December 2023)



Photonics

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 2.6



mdpi.com/si/124112

Photonics

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

[mdpi.com/journal/
photonics](https://mdpi.com/journal/photonics)





Photonics

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 2.6



[mdpi.com/journal/
photonics](https://mdpi.com/journal/photonics)



About the Journal

Message from the Editor-in-Chief

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,
CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Optics)

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 2.6
days (median values for papers published in this journal in
the first half of 2024).