Special Issue

Recent Progress in Holography and Its Future Prospects

Message from the Guest Editors

Holography is a frontline technology in optics, photonics, data science, graphic research, and display application. In particular, holographic display technology is believed to be the ultimate 3D display scheme, as it defines the wavefront of light using spatial light modulators (SLMs) (phase shift-type liquid crystal on silicon (LCoS), etc.) by software and algorithm design. Key topics in the field of holography include the following:

- Holographic-based AR/VR technologies;
- A computer-generated hologram (CGH) model for 3D holographic displays;
- Optical system design for holographic near-eye display;
- Spatial light modulator (SLM) issues for holographic image;
- Diffractive optical element (DOE) issues for holography;
- Digital holography and its potential beyond display applications;
- Theoretical and computational studies of holography in photonics;
- High-performance computing (HPC) electronic devices for real-time holograms;
- Artificial intelligence (AI)/machine learning (ML) for holography.

Guest Editors

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Deadline for manuscript submissions

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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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