

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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Editor-in-Chief

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