



Information Photonics (IP 2023)

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TOPICS:

Information Acquisition

- Optical memory, Optical data storage, Light-field camera, Fringe analysis, Light-in-flight recording, Beam scanning techniques, Internet of things (IOT) optics.

Information Processing

- Optical computing and switching, Optoelectronic data processing, Nano photonics, Pump-probe technique, Adaptive optics, Artificial Intelligence (AI), Deep learning, THz modulation.

Metaverse Photonics and Information Display

- 3D display, Volumetric display, Holography display, Aerial display, Head-up display, Near-to-eye display, VR/AR/MR optics, Light/Holographic art.

Optical Imaging and Metrology

- Automated optical inspection, Light-field imaging, Quantitative phase imaging, Optofluidic devices, Computational imaging, Compressive imaging, Structured illumination imaging, Ptychography, Optical coherent tomography, Imaging in scattered medium, X-ray techniques, THz detection and imaging.

Related Technology and Applications

- Computer-generated holography, Digital holography, Phase conjugation, Ultrafast detection, Spatial light modulator.

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