OPIC2026 Scope

ALPS2026

- Novel Optical Materials/ Structure and Applications
- High Average Power Lasers and Applications
- High Peak Power Lasers, High Pulse Energy Lasers and Applications
- Novel Solid State/ Fiber/ Diode Lasers and Applications
- Short Wavelength Light Sources and Applications
- Terahertz Devices, Nonlinear Optics and Applications
- Novel Optical Devices, Metamaterials, Structure and Applications
- Optical Devices and Techniques for Bio and Medical Applications
- Optical Frequency Combs/ Frequency Stabilized Lasers and Applications
- Quantum Optics and Their Applications

BISC2026

- Medical and Biological Imaging Instrumentation and Techniques
- Optogenetics
- Advanced Microscopy
- Advanced Endoscopy
- Super Resolution in Biomedical Imaging and Sensing
- Computational Imaging in Biomedical Imaging and Sensing
- Adaptive Optics in Biomedical Imaging and Sensing
- Structured Illumination in Biomedical Imaging and Sensing
- Interferometry and Holography in Biology and Medicine
- Optical Coherence Tomography
- Diffuse Optical Tomography
- Digital Holography
- Quantitative Phase Imaging
- Photoacoustic Imaging
- Multimodal Imaging and Sensing
- Optical Biopsy
- Spectroscopic Imaging and Sensing
- Multispectral Imaging and Sensing
- Scattering Imaging
- Fluorescence Imaging
- Molecular Imaging
- Terahertz Sensing
- Optical Fibers and Sensors for Biomedicine
- Multimodality Optical Diagnostic Systems

CPS-SNAP2026

- Core Technologies for Sensing/ Network/ AI
- Applications and use cases
- Photonics Technologies

FAAP2026

- Advances and Applications of Optical Technology – Laser Technology in Agriculture
- Advances and Applications of Optical Technology – Sensing Technology for Agriculture
- Advances and Applications of Optical Technology – Plant Factory with Artificial Light
- Integration of Science and Technology – Biotechnology
- Integration of Science and Technology – Robotics, Drones
- Integration of Science and Technology – IT, and AI
- Integration of Science and Technology – Digital Transformation(DX)
- Advancing Sustainable Agriculture – Smart Agriculture
- Advancing Sustainable Agriculture – Photosynthesis
- Advancing Sustainable Agriculture – Eco-Friedly Technology
- Advancing Sustainable Agriculture – Satellite-based Sensing Technology

HEDLA/HEDS2026

- Fluid and Collisional Plasma Dynamics
- Collisionless Plasmas and Particle Acceleration
- Transport and Atomic/Radiative Processes
- Dense Plasma Physics
- New Frontiers in High-Energy-Density Science

ICNNQ2026

- Light Matter Interaction in Nanostructures
- Quantum Optics
- Photonic Crystals and Sub-Wavelength Systems
- Metamaterials and Plasmonics
- Near-Field Optics
- Quantum Dot, Nanowire and 2D Devices
- Nonlinear Photonic Devices
- Active Photonics
- Silicon Photonics
- Integrated Photonic and Quantum Circuits
- Solar Cells and Energy Harvesting Devices
- Quantum Light Sources and Quantum Bit
- Quantum Information and Communication Devices
- Quantum Sensing Devices
- Bio-Photonics

IP2026

- Optical computing
- Digital optics
- Nanophotonic information system
- Optical biomimetic computing
- Optical cryptology
- Holography and holography art
- Computer-generated holography
- Electronic holography
- 3D display
- Volumetric display
- Holographic display
- Aerial display
- Head-up display
- Near-to-eye display
- Novel display
- Light-field imaging and display
- Digital holography
- Quantitative phase imaging
- Polarimetric Imaging
- Optical, optoelectronic, optofluidic, and imaging devices
- Computational imaging
- Compressive imaging
- Structured illumination imaging
- Novel imaging
- Novel camera
- Ptychography
- Full-field optical coherent tomography
- Imaging in scattered medium

- Digital phase conjugation
- Novel image acquisition
- Pump-probe imaging
- Ultrafast imaging
- X-ray imaging
- THz imaging
- Adaptive optics
- Optical memory
- Holographic data storage
- Spatial light modulator
- Vision engineering
- Appearance control
- Projection mapping
- AI Optics
- VR (virtual reality)
- AR (augmented reality)

LDC2026

- Light Sources and Components
- Imaging and Lighting
- Smart Systems
- XR (AR, MR, VR) and Metaverse
- Laser Applications for Moving Platforms
- AI and DX for Smart Systems
- Novel and Emerging Technologie

LEDIA2026

- Light Emitting Diodes
- Laser Diodes
- Photodetectors and Solar Cells
- Epitaxial Growths
- Extended Wavelength Devices
- Novel Fabrication Processes
- Novel Characterization Methods
- Novel Materials and Devices
- Industrial Application

LSC2026

- New Laser and Synchrotron Sources
- Developments on Laser and Synchrotron Instrumentation
- Recent Studies on Laser and Synchrotron Radiation
- Experimental Techniques and Utilization of Lasers and Synchrotrons
- Applications of Laser and Synchrotron on Materials Science and Biological Sciences

LSSE2026

- Space technology
- Carbon Neutral
- Remote sensing
- Industrial application
- Laser Acceleration (Planning session for LSSE2026)
- Agri Photonics (Joint session with FAAP2026)

META2026

- Metamaterials and Metasurfaces
- Plasmonics
- Nanophotonics
- Near-Field Optics and Photonics
- Quantum Optics and Photonics
- Nonlinear Metamaterials
- Metamaterial Devices for Imaging and Sensing
- Thermal Metamaterial Devices
- Active and Tunable Metamaterial Devices
- New Materials for Metamaterial Devices
- AI Technologies for Metamaterial Devices
- Novel Design, Optimization, Characterization, Fabrication Techniques for Metamaterial Devices

OMC2026

- Structured Optical Fields, Including Beam Shaping, Polarization Control, Pulse Shaping, Frequency Extension, and Ultrafast Laser Technologies
- Optical Trapping and Manipulation, Including Optical Tweezer, Holographic Optical Manipulation, Plasmon Trapping, Multi-Photon Trapping, and Atom Trapping and Cooling
- Fundamental Researches and Advanced Technologies Enabled By Structured Materials, Such As Metamaterials, Metasurfaces, and Photonic Crystals
- Advanced Devices and Instruments, Including Spatial Light Modulator, Adaptive Optics, and Near-Field Optical Devices
- Applications Including Structured Material Processing, Single Molecule Trapping, Biophotonics,Metamaterials, Qantum Communications, and Selective Control of Chemical Reaction
- Novel Approaches, Including Novel Interaction Between Optical Fields and Materials on Nanoscale, Novel Regimes of Spin-Orbit Interaction, and Quantum Control of Molecular Dynamics

OPTM2026

- 3D Profilometry
- Polarimetry/Ellipsometry
- Novel Optical Testing
- Surface Inspection Methods and Applications
- Absolute Testing for Metrology
- Application of Interferometric Techniques
- Machine/Robot Vision Methods, Architectures and Applications
- Lighting Methods and Systems for Inspection
- Dynamic Measurement
- Unique Optical Systems for Inspection and Measurements
- 2D and 3D Machine Vision Methods and Applications
- 3D Data Acquisition
- Freeform Testing
- Scatterometry
- Unconventional Microscope for Inspection
- Super-High Accurate Measurement for Smooth Surfaces
- Micro- and Nano-Scale Measurement Methods
- Structured Light Methods, Fringe Projection Measurement and Applications
- Phase Shifting Methods Applied To Industrial Inspection
- Mechanic-Optics and Photonics for Metrology and Inspection
- Optical Inspection by Optical Comb
- Super Resolution Microscope for Inspection
- Spherical and Aspherical Measurements
- Color Metrology of Manufactured Goods
- On-Line and Process Control Measurements

・On-Machine Tool Measurements of Shape and Finish
・High-Resolution and High-Speed Inspection Applications
・Novel Interferometry

OWPT2026

・Devices and Components
・Systems and Subsystems
・Applications
・Others (Standardization, Regulations, and Novel/ Emerging Topic Related to The OWPT Conference)

SLPC2026

・Cutting
・Welding
・Additive Manufacturing / Selective Laser Melting
・Cladding / Laser Metal Deposition
・Functional Surface Manufacturing
・Laser Peening and Related Phenomena
・Laser Polishing / Cleaning
・Short Wavelength Application
・Micro Nano Processing
・Ultrashort Pulsed Laser Processing
・Advanced Lasers and Optical Technologies
・CFRP Processing
・Industrial Applications
・AI / CPS Laser Processing
・High Power Blue and Green Laser
・Others

TILA-LIC2026

・Tinny Integrated Lasers
・Optical Materials for Tinny Integrated Lasers
・Laser Induced Phenomena by Power Miniature Lasers
・Application of Tiny Integrated Lasers
・Giant Micro-Photonics

XOPT2026

・X-Ray Optical Components
・Methods/ Applications
・Others (X-Ray Sources, X-Ray Detectors)