

OPIC2025 Scope

ALPS2025

- 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

BISC2025

- 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

FAAP2025

- 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-Friendly Technology
- Advancing Sustainable Agriculture – Satellite-based Sensing Technology

HEDS2025

- Plasma Kinetics
- Warm Dense Matter and High Pressure Material
- Strong Field and Radiations
- Simulation and Modeling
- Facility, Diagnostics, and Other Technological Advances

ICNNQ2025

- 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

LSC2025

- 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

LSSE2025

- Carbon Neutral
- Agri-Photonics
- Space Technology
- Remote Sensing
- Industrial Application

META2025

- 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

OMC2025

- 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, Quantum 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

OPTM2025

- 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

OWPT2025

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

SI-Thru2025

- Imaging Through Scattering Media
- Imaging Through Fluctuating Media
- Wavefront Sensing
- Wavefront Shaping
- Digital Phase Conjugation
- Transmission / Reflection Matrix Approaches
- Scattering and Fluctuation Theory
- Scattering and Fluctuation Modeling
- Diffuse Optical Imaging
- Computational Imaging
- Single-Pixel Imaging
- Ghost Imaging
- Deep Learning and Machine Learning
- Non-Line-of-Sight Imaging
- Deep Live-Cell Imaging
- Deep Optical Cell Manipulation
- Live Brain Imaging
- Ultrasound Imaging
- Photoacoustic Imaging
- Nondestructive Testing
- Adaptive Optics
- Observational Astronomy
- High-Contrast Imaging of Exoplanet
- Spatial Light Modulation and Deep Biometry
- Next-Generation Communications
- Telecommunication
- Spatial Information Communication
- Modulation and Coding
- Pointing, Acquisition, and Tracking
- Atmospheric Propagation
- Transmitters and Receivers for Communication
- Terrestrial Networks
- Quantum Communication
- Other Related Areas

TILA-LIC2025

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

XOPT2025

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