



International Symposium on Optoelectronic Technology and Application

尊敬的_____先生/女士，您好！

International Symposium on Optoelectronic Technology and Application将于2016年05月在北京召开。

会议通知

The International Symposium on Optoelectronic Technology and Application (OTA 2016) will be held in Beijing, China, 9-11 May, 2016. The OTA will serve as good platforms for the members of photoelectronic technology community to meet with each other and to exchange ideas. The conference will bring together leading researchers, engineers and scientists in the domain of interest from around the world.

The International Symposium on Optoelectronic Technology and Application (OTA 2016) is the premier forum for the presentation of new advances and research results in the fields of Photoelectronics. The conference will bring together leading researchers, engineers and scientists in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

1. High power lasers and high energy lasers

Solid-state, Fiber Lasers

Semiconductor Lasers

Terahertz Sources and Applications

Applications of Nonlinear Optics

Optical Materials, Fabrication and Characterisation

Ultrafast Optical Technologies

High-field Laser Physics and Attosecond Technologies

Fiber and Guided Wave Lasers and Amplifiers

2. Laser manufacturing and laser detection technology

Laser cutting, drilling and machining technology

Laser welding and joining technology

Laser additive manufacturing

Laser micro/nano Fabrication

Laser surface engineering

Lasers, systems and components

Modelling and simulation

Laser interference length measurement

Laser ranging, laser vibrometer, laser velocimetry

Laser speckle measurement, laser alignment

Laser holography

3. 3D printing technology

3D Printing Biomedical

3D Print of Cultural and Creative

3D Printing Material

3D Printing and Industry 4.0

3D Printing and Industrial Design

4. Advanced optical design and manufacturing technologies

Current Developments in Lens Design and Optical Engineering

Novel Optical Systems Design and Optimization

Zoom Lenses

Laser Beam Shaping

Optical System Alignment, Tolerancing, and Verification

Nonimaging Optics: Efficient Design for Illumination and Solar Concentration

Advanced optical manufacturing technologies

Aspheric optics design, manufacturing and testing

Ultra-precision freeform surfaces design, manufacturing and Testing

Super-precision optical manufacturing

Optical thin film coatings

Diamond turning technology

Optical design and simulation software and tool

Optoelectronics components and modules integration and manufacturing

Opto-mechanical components and devices

5. Optical Measurement Technology and Instrument

Testing and alignment of optical surfaces and systems

Test for super- precision optical surface

Test for freeform optics

Measurement for super smooth surface

Measurement of optical thin film

Test of infrared technologies

Optical test and measurement for Micro and Nano scale technology

Laser radar

Modern Optoelectronic Instruments

Detectors Focal Plane Instrumentation

IR/ X-ray /UV measurement technology and Instrument

Measurement Uncertainty and Machine Tool Testing

Measurement of Radiometry and photometry

Measurement of 3D Imaging and Display

6. Robot Sensing and Advanced Control

Machine vision and Image processing

Opto-electronic Imaging

Optical communication and optical signal processing

Optical sensor and applications

Environment recognition, Localization and navigation for unmanned vehicle systems

Opto-mechanical components and devices

Opto-electronic tactile sensing and force sensor

Binocular vision and 3D reconstruction

Visual navigation and path planning

Eyes-in-hand robot system

Vision-based robot precise assembly

Vision-based tele-robot system

Multi-sensor information fusion for robot

7. Astronomical Telescopes and Instrumentation

Space Telescopes and Instrumentation: Ultraviolet, Optical, Infrared, and Millimeter Wave

Ground-based and Airborne Telescopes and Instrumentation

Optical and IR Interferometry and Imaging

Adaptive Optics Systems

Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation

8. Optical Data Storage

Holographic recording

Multi-dimensional recording

Near field recording

Super resolution

Hybrid recording

Optical recording materials

Basic theory and modeling

Testing and characterization

Media

Components

Coding and signal processing

Drive technologies

Systems and applications

Future emerging technologies

Nanophotonics

Plasmonics

Spintronics

Biophotonics

Hybrid materials and devices

9. Hyperspectral Remote Sensing Applications

Airborne & Satellite Hyperspectral Applications (agriculture, forestry, environment, geology, survey, ocean, etc)

UAV-born Hyperspectral Sensors

Space-born Optical Sensor Technologies

Space Physics, Meteorology and Atmospheric Research

Space Objects Characterization

Hyperspectral Imaging Systems and Technologies

Hyperspectral Data Preprocessing and Analysis

On-board Hyperspectral Data Storage and Real-time Data Transmission

Micro-satellite Technologies, etc

10. silicon-based photonic integration

Luminescent materials and devices

Optical transmission and control in micro / nano scale

Photonic devices

Fabrication and device of heterogeneous structure materials

Optoelectronic integration

Other novel silicon-based technologies

11. Infrared technology and application

Infrared detector materials and devices

Infrared cameras and systems

Infrared detectors and imaging applications

Semiconductor materials for infrared and mid-IR lasers

Novel infrared semiconductor lasers and related applications

Novel infrared materials for photovoltaics

Information acquisition & signal processing technologies

Testing and simulation technologies

Environment characteristics of target and atmospheric transmission

Applications in remote sensing, navigation, communication, environmental protection, public security, medicine and industrial inspection

12. Environmental Monitoring and Safety Testing Technology

The general spectrum (color spectrum and mass spectrum testing) analysis method

Air, water, soil pollution and poisonous and harmful substance monitoring technology

Emergency monitoring and telemetry of pollution incidents

Food and drug safety testing technology

Safety testing technology in industrial production process

Public security detecting technology

Newtheory, technology and equipment of environmental safety monitoring /testing

13. Optical Fiber Sensors Technology and Applications

Optic fiber gyro

Novel fiber optic sensing mechanisms

Fiber Optic Sensor System Technologies

Fiber optic sensor applications

14. Optical communication and optical network

Broadband fiber access network technology and application of 100G / 400G / 1T high-speed optical transmission systems

Large-capacity optical switching technology and applications

Flexible intelligent optical networking technology and applications

All-optical gateway key technology

Software-defined optical network with optical layer resource virtualization

OTN and PTN and integration

Data center and application of optical interconnect architecture

Optical network operation and management

Optical communication and industrialization of key components

Fiber optic communications and wireless networking and application integration

Space optical communication and networking and application

Advances in optical communications standard

Optical Communication edge technology

会议日程

会议嘉宾

会议门票

会务费：¥ 2600。

