



[www.deconf.org/conference/LOC2021/](http://www.deconf.org/conference/LOC2021/) December 4-6, 2021, Sanya, China

## About Conference

**The 7th Laser and Optoelectronics Conference (LOC 2021)** will be held from December 4-6, 2021 in Sanya, China. This Conference will cover issues on Laser and Optoelectronics. It covers issues on Lasers, amplifiers, micro/nano-photonics devices, Laser Processing of Materials, Terahertz Technologies and Applications, Ultrafast Optics, Optoelectronic Devices and Applications, Short-pulse, solid-state, semiconductor, fiber, waveguide optical sources and devices, Active Optical Sensing and Metrology, etc. LOC 2021 dedicates to creating a stage for exchanging the latest research results and sharing the advanced research methods.

## Conference Topics

### **Lasers, amplifiers, micro/nano-photonics devices**

Solid-state-, liquid and gas lasers, technology and devices

Fiber lasers, cw and pulsed; amplification, ultra wideband, mode-locked, nonlinear effects

High Energy/Average Power Lasers

Micro fabricated devices, on-chip applications

Nonlinear effects in micro and nano devices

### **Laser Processing of Materials**

Femtosecond laser processing

Laser micro- and nanoprocessing

Laser Nanopatterning

Laser Synthesis of Nanomaterials

Laser Direct Write

Laser assisted fabrication of novel optoelectronic devices

### **Terahertz Technologies and Applications**

Ultrafast time-domain systems

Direct generation using terahertz lasers

Cw generation based on nonlinear optical mixing

New terahertz measurement techniques and instrumentation

Advances in imaging configurations, detector technologies, and terahertz optical components

Terahertz optical measurements

Applications using terahertz radiation for spectroscopy, sensing, and imaging

### **Ultrafast Optics, Optoelectronic Devices and Applications**

Optical phase control in ultrafast laser systems

Ultrafast optoelectronic and electro-optic materials, devices, and systems

Ultrafast measurement techniques

Applications of ultrafast technology

Ultrafast amplification and schemes

### **Short-pulse, solid-state, semiconductor, fiber, waveguide optical sources and devices**

Fiber-optic sensor and networks  
White LED and related technologies  
Electro-optic modulators and related advanced modulation format technologies  
Advanced radio-over-fiber devices and related technologies  
Intelligent optoelectronic devices and optical switching  
Grating-based devices and related technologies  
Slow and fast light devices and related technologies  
Free-space communications related devices and technologies  
Systems or devices for optical and digital image processing

#### **Biophotonics and Optofluidics**

Laser medical diagnostics and therapeutics  
Biosensing including spectroscopic optical diagnostics  
Optical coherence tomography  
Photoacoustic techniques  
Optics in biotechnology  
Lab-on-chip devices  
Microfluidically tunable or reconfigurable optical and photonic systems  
Optofluidic assembly and lithographic techniques

#### **Active Optical Sensing and Metrology**

New optical devices, instruments, and technologies for precision measurements  
Optical frequency standards; length, distance, and dimensional metrology; lasers, supercontinua, and broadband sources  
Frequency-comb generation, control, and applications; carrier-envelope phase control  
Chemical and biological agent detection and identification  
Atmospheric monitoring, indoor, outdoor, industrial, combustion, emissions  
New: Laser spectroscopy for Breath Analysis

## Publication and Presentation

**Publication:** All the accepted papers will be published by a peer-reviewed open access journal that can ensure the widest dissemination of your published work, for more information, please contact us (workshop12@163.com).

**Index:** CNKI and Google Scholar

## Hotel & Venue

International Asia-Pacific Convention Center Sanya

(三亚亚太国际会议中心暨三亚海航度假酒店)

International Asia-Pacific Convention Center Sanya is a five star standard luxury hotel, which locates beside the seashore, and is the ideal place for vacation and conference.

The hotel has 254 luxury and comfortable rooms, and 16 conference rooms in different sizes. The conference rooms can accommodate people from 20-1000 and totally square 5400m<sup>2</sup>.

Housing, dining, recreation facilities... everything needed is ready, Even National initiative seawater swimming pool, sea recreational centre and so on, which make you a pleasant vacation.

High-speed net connectors are equipped in the houses and service of renting laptops is provided, all these give you a convenient office atmosphere while you are on vacation.

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