

The 2nd International Symposium on Photonics and Optoelectronics (SOPO 2010)

IEEE 光学与光电子学国际会议

June 19-21, 2010

Chengdu, China

<http://www.scirp.org/conf/sopo2010/>

The 2nd International Symposium on Photonics and Optoelectronics (SOPO 2010) will be held from June 19th to 21th, 2010 in Chengdu which is one of the largest cities in China on the banks of the Ming River. SOPO 2010 will bring together top researchers from Asian Pacific areas, North America, Europe and around the world to exchange research results and address open issues in all aspects of Photonics and Optoelectronics. **All accepted papers in SOPO2010 will be published by IEEE and indexed by EI Compendex and ISTP.**

Topics

Laser Technology and Applications

- Laser physics and nonlinear optics
- Gas lasers and applications
- Solid state lasers: technology and devices
- Semiconductor lasers, tunable and multi-wavelength lasers
- Laser materials, fabrication and characterization
- Laser material processing
- Tera-hertz sources & detection
- Tera-hertz propagation

Image Processing

- Image acquisition, reconstruction, restoration and fusion
- Image transformations: wavelet theory, space theory, geometrical transforms and restoration
- Image analysis: motion estimation, segmentation, object tracking and pattern recognition
- Visualization: 3D visualization, holography and display systems
- Image information management: coding, cryptography, watermarking, storage and retrieval, resolution enhancement
- Medical imaging, surveillance, security, remote sensing and multimedia
- Systems or devices for optical and digital image processing

Optical Communications

- Optical fiber communication
- Free-space optical communication
- Optical communication networks
- Optical transport network
- Coding and signal processing
- Modulating retro-reflector
- Intensity modulation
- Optical wireless
- Optical carrier

Optoelectronic Devices & Integration

- Optical sensors and applications
- Fiber-optic sensor and networks
- White LED and related technologies
- High performance semiconductor optical amplifiers
- Advanced optoelectronics device fabrication technologies
- Nonlinear optical devices and all-optical signal processing
- 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
- Nano technologies and their application in optoelectronics devices
- Slow and fast light devices and related technologies
- Free-space communications related devices and technologies
- New optoelectronic device materials and processing

Medical and Biological Applications

- Biomedical optics
- Laser medical diagnostics and therapeutics
- Optical coherence tomography
- Advanced biological microscopy
- Photochemistry and photobiology
- Laser tissue interactions and laser surgery
- Minimally invasive optical diagnostics
- Photo-acoustic techniques
- Optics in biotechnology
- Optical-system engineering for medicine

Contact Information

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Important Dates

Paper Due : **Dec. 20, 2009**

Acceptance Notification : **Jan. 10, 2010**

Conference : **Jun. 19, 2010**