**2010 International Conference on Optoelectromics and Image Processing**

www.icoip.org

CALL FOR PAPER

The International Conference on Optoelectronics and Image Processing (ICOIP 2010) will be held from Nov 11th to 12st, 2010 in Haikou, China. ICOIP 2010 will provide a highlevel international forum for scientists, engineers, and educators to present the state of the art of optoelectronics and Image processing and their applications in diverse fields. All accepted papers will appear in conference proceedings published by the IEEE Computer Society and will be indexed both EI (Compendex) and ISTP. Relevant topics include, but are not limited to:

Topics: The conference is soliciting state-of-the art research papers in the following areas of interest:

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
[]
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 and 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

Important Dates (Deadline):

| | | | |
|---|---|---|---|
| June | 15 | 2010 | Submission of full papers |
| July | 20, | 2010 | Notification of papers acceptance |
| July | 31, | 2010 | Author registration |
| July | 31, | 2010 | Submission of final papers |