

CALL FOR PAPERS

CHINACOM 2008

August 25 - 27 2008, Hangzhou, Zhejiang, China.

Optical Communications and Networking Symposium

Symposium Co-Chairs

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Brief Description

Optical communication and networking technologies are continuously evolving towards flexible network and switching architectures, cost-effective optical components, and intelligent control and management, and are increasingly finding their applications in metro and access areas besides the traditional long-haul region. The ChinaCom2008 Optical Communications and Networking Symposium aims at providing a forum for researchers and practitioners to share and disseminate their latest findings on advances in optical communications and networking. The symposium will address the design, modelling and implementation of optical networks and systems, including novel routing and wavelength assignment schemes, advanced network, node and component architectures, provisioning and monitoring protocols, and impact of the physical-layer impairments on optical network design and traffic engineering. The symposium will also help researchers to present and discuss the recent standardization efforts as well as to share lessons learned from the latest optical networking test-bed trials and applications. Original papers on all aspects of optical communications and networking are solicited.

Topics of interest include, but are not limited to:

- Semiconductor lasers and optoelectronic devices
- Advanced modulation techniques and formats
- Next generation SONET/SDH
- ROF and optical system and subsystems
- High data rate transmission systems
- Optical network architecture and protocol design
- Regional, core, metro, and access optical networks
- Optical grid and multi-domain networks
- Optical Ethernet and passive optical networks (e.g., EPON, GPON, and WDM-PON)
- Hybrid wireless-optical access networks
- Cross layer optical networks
- Optical packet switching, burst switching, and label switching
- Routing and wavelength assignment
- Multicasting, broadcasting, and groupcasting
- Traffic grooming and traffic engineering

- Optical network control and management
- Optical network protection and restoration (single layer and multilayer)
- Network modeling and performance analysis
- Optical network applications (e.g., grid computing, storage area networks, multimedia content distribution networks, etc.)
- Optical network testbeds, field trials, and experiments