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### Scope of the Conference

Communications and networking technologies have been developing rapidly in recent years. New topics and ideas are flourishing, such as Cloud Computing, Green Radio, Internet of Things, Heterogeneous Networking, and so on. The aim of CHINACOM is to bring together Chinese and international researchers and practitioners under one roof to exchange ideas and disseminate scientific results from cutting edge and emerging research areas in communications and networking. Following the great success of the past CHINACOM 2006-2011, CHINACOM 2012 will be held in Kunming, China in August 2012. Prospective authors are welcome to submit original technical papers for publication in the conference proceedings and for presentation at the following symposia

#### **Committee:**

##### **General Chairs:**

Branka Vucetic, University of Sydney  
Jinglin Shi, Institute of Computing Technology  
Zhijie Zheng, University of Yunnan

##### **Keynote Chair:**

Mahmoud Daneshmand, AT&T Labs Research

##### **Publication Chairs:**

Lin Tian, Institute of Computing Technology, CAS  
Hongwei Ding, University of Yunnan  
Yifag Zhao, University of Yunnan

##### **Workshops Chairs:**

Mugen Peng, Beijing Uni. of Post & Telecommun.  
Ming Chen, Southeast University

##### **Panels Chair:**

Yang Yang, Shanghai Research Center for Wireless Comm.

##### **Industry Track Chair:**

Xiaodong Zhang, Spreadtrum

##### **Local Chair:**

Qianlin Liu, University of Yunnan  
Xue Han, Institute of Computing Technology, CAS

#### **TPC Co-Chairs:**

Hsiao-Hwa Chen, National Cheng Kung University  
Xiaodong Wang, Columbia University  
Jiangchuan Liu, Simon Fraser University  
Mamoru Sawahashi, Tokyo City University  
Yiqing Zhou, Institute of Computing Technology, CAS

#### **Publicity Chairs:**

Qi Liu, Institute of Computing Technology, CAS  
Zhuguan Liang, University of Yunnan  
Jin Lu, University of Yunnan

#### **Sponsorship and Exhibits Chairs:**

Yi Huang, Institute of Computing Technology, CAS  
Jiahe Peng, University of Yunnan

#### **Demos and Tutorials Chairs:**

Dan Wang, Hong Kong Polytech University  
Wei-Guang Teng, National Cheng Kung University

#### **Web Chairs:**

Bailing Chang, Institute of Computing Technology, CAS  
Haihua Chen, Institute of Computing Technology, CAS

### Submission

Please refer to <http://chinacom.org/show/authors-kit> for further information on submission format and requirements.

Selected best and outstanding papers will be considered for publication in special issues of the following journals after further extension:

- Confirmed: ACM/Springer Mobile Networks and Applications (MONET) - SCI indexed
- Confirmed: Wiley Security and Communication Networks (SCN) - SCI indexed
- Confirmed: Journal of Computer Science and Technology (JCST) - SCI indexed

### Publishing and indexing

All accepted and presented papers will be included in the Chinacom 2012 Conference Proceedings to be published by IEEE and available in IEEE Xplore. Proceedings published with IEEE are submitted for inclusion to EI Engineering Index (Compendex), Google Scholar, ISI Proceedings.

### IMPORTANT DATES

Paper submission deadline:  
**01/03/2012**  
Author notification deadline:  
**15/05/2012**  
Camera-ready submission  
deadline:  
**22/06/2012**  
Tutorial Proposal:  
**20/01/2012**  
Workshop Proposal:  
**31/12/ 2011**

## Topics of the conference are but not limited to:

### Wireless Communications and Networking Symposium

- Antenna, propagation and channel modeling
- Channel modeling and estimation
- Modulation and coding, and diversity techniques
- Equalization, detection and estimation
- Multiple antenna and multicarrier technologies
- Multiple access techniques
- Wireless air interference and link control
- Multimedia communications and QoS
- Radio resource management and interference control
- Network architecture and planning
- Green radio
- Wireless ad hoc and mesh networks
- Wireless sensor networks
- Vehicular wireless networks
- Bluetooth technologies and applications
- Body-area networks
- Heterogeneous networks and systems
- Ultra-wideband communications (UWB)
- Radio frequency identification (RFID)
- LTE, LTE-Advanced and 4G
- WLAN/WPAN and mobile internet
- Wi-Fi and WiMAX

### Frontiers on Communications and Networking Symposium

- Cooperative communication and networking
- Cross-layer optimization and physical layer based network issues
- Physical layer security
- Localization and positioning
- Cognitive radio and software defined radio
- Cloud base station technologies
- Gigabit wireless systems
- Smart grid communications and network protocols
- Satellite communications and networks
- Green Communications and networks
- Machine to machine communications
- Internet of things

### Multimedia Communications Symposium

- Multimedia streaming
- Mobile multimedia
- Multimedia content distribution
- Wireless multimedia
- Interactive media
- Content-aware multimedia communications
- Peer-to-peer multimedia streaming
- Multimedia protocols
- Multimedia services
- Multimedia QoS guarantee

### Signal Processing for Communications Symposium

- Adaptive Signal Processing
- Multi-rate Signal Processing
- Synchronization
- Precoder/Decoder Design
- Beamforming and DOA Estimation
- Signal Processing Techniques for Wireless Sensor Networks
- Radar Signal Processing
- Distributed Algorithms for Communication Systems
- Signal Representation, Coding and Compression
- Cyclostationary Signal Processing
- Statistical Signal Processing
- Spectral Analysis and Estimation
- System Level Optimization

### Information and Coding Theory Symposium

- Coding theory and practice Communication theory
- Compression
- Cryptography and data security
- Detection and estimation
- Information theory and statistics
- Network communication theory
- Multiple terminal information theory
- Quantum information theory
- Sequences and complexity
- Shannon theory
- Joint source and channel coding
- Modulation and coding

### Advances in Internet Symposium

- Next-generation Internet Architectures
- Network Intelligence
- Network Protocols, Applications & Services
- Next-generation Access Networking
- Switching & Routing
- Network Management
- Communications QoS and Reliability
- Network Security and Privacy
- Survivability for Next-Generation Internet
- Internet of Things
- Cloud Computing

### Optical Communications and Networking Symposium

- Optical switches architecture and performance
- Routing and wavelength assignment
- ASON/GMPLS control plane
- Optical network protection and restoration
- Passive optical networks (A/B/G/EPONs)
- Optical grid
- DWDM and CWDM transceivers and transponders
- Fixed and reconfigurable OADMs
- OE and passive devices' applications
- Optical systems design and simulation
- Optical network test beds and field trials
- Hybrid wireless-optical metro/access networks

### Network and Information Security Symposium

- Network security situation analysis and prediction technologies
- Network risk analysis and evaluation technologies
- Trusted Computing
- Multilevel security system and technologies
- Denial-of-service attacks and countermeasures
- Wireless and pervasive/ubiquitous computing security
- Security for critical infrastructures
- Intrusion and anomaly detection and prevention
- Automated tools for source code analysis
- Malicious code analysis, anti-virus, anti-spyware
- Privacy-preserving (and compromising) systems
- Security in Cloud and Grid Systems

### ICST is a Member of EAI

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