



HIGHLIGHTS

- Chinacom 2012 will feature keynote speeches by:

Prof. Jie Wu, Department of Computer and Information Sciences Temple University, USA

Prof. Ping Zhang, Key Lab. of Universal Wireless Communications of Ministry of Education Beijing University of Posts and Telecommunications, China and

Prof. Jiangzhou Wang, Broadband and Wireless Communications Research Group University of Kent, UK

- Chinacom 2012 will offer 7 workshops; see website for further information and calls for workshop papers.

- All accepted papers will be published by IEEE. IEEE Proceedings are submitted for inclusion to EI Engineering Index (Compendex), Google Scholar, ISI Proceedings

- The event is endorsed by the European Alliance for Innovation (www.eai.eu), a leading community-based organization devoted to the advancement of innovation in the field of ICT

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

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 & Exhibits Chairs:

Yi Huang, Institute of Computing Technology, CAS

Xue Han, 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

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.

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

IMPORTANT DATES

Paper submission: **March 15, 2012**

Author notification: **May 31, 2012**

Camera Ready: **June 22, 2012**

Conference date: **Aug. 7-10, 2012**

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

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

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

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

Submission

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

About EAI

The European Alliance for Innovation is a dynamic eco-system for fostering ICT enabled innovation to improve European competitiveness and to benefit society. EAI uses open e-platforms to inspire grassroots collaboration among all relevant actors, from organizations to individuals, to stimulate community driven innovation to its institutional and individual members worldwide. Through EAI, organizations find ideas and talent, and individual innovators find organizations for their ingenuity and craft. Join the innovation community at www.eai.eu