

# CALL FOR PAPERS

## CHINACOM 2008

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

### Advances in Internet Symposium

#### *Symposium Co-Chairs*

**Mohammad Atiquzzaman**, *University of Oklahoma, USA (atiq@ou.edu)*

**Chonggang Wang**, *University of Arkansas, USA (cgwang@uark.edu)*

**Baoxian Zhang**, *Graduate University of Chinese Academy of Sciences (bxzhang@gucas.ac.cn)*

#### *Brief Description*

During the past decades, owing to the simplicity of the Internet Protocol, the Internet has experienced significant expansion. Almost any node can be connected easily to the Internet through either wired or wireless networks. The challenge has shifted from just connecting users to providing them with flexible guaranteed communications. Unlike the wired networks, wireless networks are characterized by high bit error rate depending on the user environment, and the long delay for long distance or cluttered communications. Furthermore, in heterogeneous networks, users would like to maintain seamless connectivity even when they are traversing between networks. This mobility requirement brings another challenging problem to IP since the original protocol was only designed for fixed networks, where most of the nodes are bound to a sub-network and seldom change their locations. Fairness among connections, network utilization, and roaming issues, are some of the current major concerns.

Traditional IP is readily exposed to attacks such as DDoS and Flooding, causing serious security threat to the integrity of the Internet. Current research has focused on how the future Internet will be shaped. One path to the future Internet is evolutionary by making the necessary modifications and adding some new functions to current IP; the other is revolutionary by possibly creating a suite of totally new network architectures and protocols.

The ChinaCom2008 Advances in Internet symposium solicits original work from both academia and industry. Potential contributors are invited to submit their unpublished paper(s) addressing various aspects related to the Internet Protocol.

#### *Topics of interest include, but are not limited to:*

- Protocols for Internet's Next Generation (PING)
- IP grid management and grid services
- IP-based convergent solutions and next generation networks
- P2P computing
- IPv6 and IPv6 transition
- Wireless IPv6
- IP applications and services
- Multicast and anycast
- VOIP

- Virtual private networks
- Multimedia protocols
- Internet measurements
- Quality of service
- Routing protocols
- IP over satellite
- Transport layer protocols
- Mobility management in IP networks
- Multi-protocol label switching
- IPTV
- IP multimedia system
- Broadband access networks
- Fixed mobile convergence