

## CALL FOR PAPERS

### ICCCN 2008: 17TH INTERNATIONAL CONFERENCE ON COMPUTER COMMUNICATIONS AND NETWORKS

<http://www.icccn.org/icccn08/>

**August 4-7 2008**

Frenchman's Reef & Morning Star Marriott Beach Resort  
St. Thomas, US Virgin Islands, USA

Sponsor: Technical Co-Sponsorship by IEEE Comsoc

### **3G and Beyond Track**

Wireless 3G technology such as UMTS and CDMA2000 provides higher physical data rates than the previous 2G systems as well as enhanced data services. 'Beyond 3G' technologies promise to offer even higher data rates, ubiquitous connectivity, and capability of diverse multimedia services. The evolution of wireless networks from 3G and beyond includes enhancements in the physical layer (MIMO, spatial multiplexing, coding), medium access layer (OFDMA, software-defined radio), as well as higher layers from transport to services (provisions for VOIP, TV, and other multimedia). Modifications and diversity across the architectural plane are also introduced (Cellular, WIMAX, WLAN). The wireless network spreads from the cellular level to residential, and further to personal area environments.

This track will focus on wireless technologies related to 3G and beyond. The issues addressed in this track include, but are not limited to, performance of key enhancements at the PHY and MAC layers through new physical mechanisms and resource allocation algorithms, and new issues in wireless network evolution. A framework for co-existence of heterogeneous systems must be realized, including handovers of users between these systems, raising issues of network convergence. With fixed-lines increasing in bandwidth, the impact on wireless backhaul technologies must be considered. Provision of new services such as multimedia, games, TV, etc., must be introduced, along with Quality of Service criteria.

We solicit original and unpublished research achievements in the area of next-generation wireless networks, including (but not limited to) the following topics:

- Quality of service
- residential wireless network
- Broadcast TV - DVB, DAB
- OFDMA
- software-defined radio
- Radio over Fiber
- horizontal handovers
- personal area network
- wireless backhaul
- cross-layer design
- MIMO
- spatial multiplexing
- cooperative coding
- cooperative relay

**Submission of Manuscripts:** Please follow the general submission instructions on the conference website.

<b>Important dates:</b>	Paper submission:	<b>March 9, 2008 (FIRM)</b>
	Notification of acceptance:	May 12, 2008
	Camera ready papers due:	June 1, 2008

**Track Co-Chairs:**

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