IEEE WIRELESS COMMUNICATION AND NETWORKING CONFERENCE

Atlanta, Georgia, USA, March 21-25, 2004
www.wcnc.org/2004

Sponsored by the IEEE Communications Society
- Call for Papers, Tutorials & Business Applications Sessions -

BROADBAND WIRELESS - THE TIME IS NOW!

Once again co-located with the Cellular Telecommunications Industry Association's premier tradeshow CTIA WIRELESS 2004, WCNC 2004 will offer the best tutorial, research, and industry-oriented technical content on terrestrial wireless communication in all its forms. As multimedia-oriented 3G cellular mobile, very high speed WLAN (wireless LAN), and new fixed wireless systems are being introduced, the theme and focus of this conference is broadband wireless communication technologies, systems, and services. Theory and practice are inseparable as researchers and developers evolve ways to use spectrum more efficiently, interoperate different air interfaces and networking systems, utilize both infrastructure and ad-hoc networking techniques, support multimedia QoS (quality of service), and exploit the newest coding, detection, and bandwidth-spreading technologies.

Contributions are solicited in (but not limited to) the following topical areas:

- 3G/4G, WLAN, WPAN, WMAN, emergency radio systems
- Software-defined radio
- Space-Time Processing, MIMO systems
- Ultra Wideband (UWB)
- Security techniques and systems
- Wireless indoor & home networks
- Ad-hoc networks
- Digital signal processing
- Channel characterization
- Interference and compatibility issues
- Handset design/user interfaces
- Wireless multimedia applications
- Economics and business cases
- Cellular mobile/WLAN interoperability
- Wireless emergency systems
- Micromobility
- Multiple air interface devices
- Modulation, detection, and channel equalization
- Multimedia QoS support
- AAA (Authentication, Authorization, Accounting)
- Power control systems and low power circuits
- Heterogeneous networks
- Sensor Devices and Networks
- Standards and regulation
- Interference mitigation for multiple access
- Wireless networked appliances
- Wireless resilient networking
- Industry views on future systems and networks
- Medium access control (QoS, fairness)
- Innovative user interfaces
- Information technology in wireless communications

Papers of no more than 6 (10-point font) printed pages, including figures, should be submitted via the author's web page, http://www.wcnc.org/2004/authors.html The paper schedule is as follows:

October 7, 2003 10:00 pm EST Submission deadline
December 1, 2003 Notification of acceptance/rejection decision
January 5, 2004 Deadline for final revised paper

CALL FOR TUTORIALS

Proposals for half/full day tutorials are also solicited based on the topics above or others related to issues and opportunities for the future of wireless communications and its applications. Proposals must be received no later than September 15, 2003, using the attached proposal form. Tutorial presenters will receive compensation. Contact Gordon Stuber (stuber@ece.gatech.edu), Vice Chair for Tutorials, for consultation and information on compensation.

CALL FOR BUSINESS APPLICATION SESSIONS (BAS)

Proposals are solicited for Technology Panels/Business Application sessions, in the topical areas above or others related to business and policy-related issues and opportunities for the wireless communications industry. Proposals should be made directly via email to the Program Chair.

Program Chair

Dr. Stephen Weinstein, CTTC & Columbia U. , s.weinstein@comsoc.org
General conference and program information: wcncprograminformation@comsoc.org