

## Call for Papers

*IEEE Communications Magazine* Feature Topic on

### **Advances in Wireless VoIP**

Beginning as a frolic among computer enthusiasts, VoIP has managed to set off a feeding frenzy in both the industrial and scientific communities and has the potential to radically change telephone communications. Wireless VoIP in particular has been one of the hottest topics lately and has gathered considerable momentum mainly due to its potential to provide new wireless telephony experiences and tight integration with Internet services. As VoIP holds considerable appeal both from the users' and service providers' viewpoint, and as consumers get used to more and more fixed VoIP services, the demand to migrate these services to wireless environments is ramping up quickly. However, there are still several challenges that need to be dealt with when VoIP technologies are deployed in wireless networks. Issues such as bandwidth efficiency, scheduling and QoS, handover latency / loss in heterogeneous access networks, as well as call setup delay, resource reservation and call continuity in different environments, still raise unique technical challenges associated with wireless VoIP transmission. These issues, among others, need to be effectively handled before VoIP services become widely adapted in wireless networks. For this purpose, both the industrial and scientific communities have been intensively working to address such issues and develop economically efficient wireless VoIP services.

The aim of this feature topic is to report on the latest advances in wireless VoIP and cover a wide spectrum of topics related to VoIP communications over wireless networks. Original, tutorial-in-nature papers are solicited that present recent research and development findings including experimental results and performance evaluations. The key topics of interest include the following:

- Emerging VoIP services in all-IP mobile networks
- Efficiency of VoIP transmission over mobile radios
- Handover of VoIP sessions across different radio networks
- Call continuity between VoIP and traditional circuit-switched networks
- Design, implementation and VoIP testbed results
- QoS mechanisms tailored to VoIP transmission
- Header Compression schemes
- Voice codecs and silence suppression
- VoWLAN architecture and core protocols
- VoIP over WiMAX
- Call admission control and QoS support for VoIP over wireless networks

#### **Schedule:**

Manuscript submission:	June 15, 2007
Notification of acceptance:	September 15, 2007
Final manuscripts due:	November 1, 2007
Publication date:	January, 2008

**Submission:**

Authors must follow the *IEEE Communications Magazine's* guidelines for preparation of the manuscript. Complete guidelines for prospective authors can be found at [www.comsoc.org/pubs/commag/sub\\_guidelines.html](http://www.comsoc.org/pubs/commag/sub_guidelines.html). All articles to be considered for publication must be submitted through IEEE Manuscript Central (<http://commag-ieee.manuscriptcentral.com>). Select "January 2008/Wireless VoIP" from the drop down menu in order to have your manuscript submitted to this feature topic.

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