



CALL FOR PAPERS
INTERNATIONAL SYMPOSIUM ON MULTIMEDIA OVER WIRELESS

<http://www.ece.northwestern.edu/~haohong/wirelesscom05/index.html>

Sheraton Maui Resort, Kaanapali Beach, Maui, Hawaii, USA

June 13-16, 2005

Technical Sponsored by: IEEE Multimedia Communications Technical Committee

IEEE Visual Signal Processing and Communications Technical Committee

The rapid growth in interactive multimedia applications, such as video telephonies, video games and TV broadcasting has resulted in spectacular strides in the progress of wireless communication systems. The current third generation (3G) wireless systems and the next generation (4G) wireless systems in planning support higher bit rates. However, the high error rates and stringent delay constraints in wireless systems are still significant obstacles for these applications and services. On the other hand, the development of more advanced wireless systems provides opportunities for proposing novel wireless multimedia protocols and new applications and services that can take the maximum advantage of the systems.

The symposium aims to provide an excellent forum for all experts working in these areas to join together and to discuss various important issues on multimedia over wireless. The timing of this symposium is set such that the ideas that come out of it can affect the evolution of 4G. The papers submitted to this symposium should focus on the state-of-the-art research in various important areas related to emerging technologies and standards on the coding and transmission of multimedia information over wireless networks. We solicit papers covering a variety of topics that include, but not limited to the following subjects:

- Advanced multimedia coding algorithms
- Error resilient and error concealment
- Video quality assessment
- Rate control for wireless video
- Scalable and multiple description multimedia coding and transmission
- Joint source-channel coding
- Efficient transport protocols for wireless
- Optimal resource allocation for energy-efficient wireless multimedia
- Cross-layer multimedia communication system design and optimization
- Proxy-based systems for video transcoding and content distribution
- Lightweight video encoding methods based on distributed source coding
- Quality of Service issues
- Multimedia processing for wireless sensor networks
- Wireless multimedia traffic modeling

Only original and unpublished paper will be considered. Prospective authors are invited to submit papers of no more than six (6) pages in double-column IEEE format including results, figures and references at msrcmt.research.microsoft.com/WirelessCom2005 before **March 31, 2005**. The symposium awards the best papers. Outstanding papers on video communications will be invited to extend to full version for a special issue of the *Journal of Wireless Communications and Mobile Computing*.

Important dates:

Manuscript Submission:

March 31, 2005

Acceptance Notification:

April 30, 2005

Camera-Ready Papers Due:

May 15, 2005

Symposium Co-Chairs:

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