

Call for Paper

Multimedia over Wireless Symposium

International Conference on Wireless Communications and Mobile Computing

IWCMC 2012—iwcmc.org

August 27th-31st, 2012, Cyprus

Recent advances in communications technologies have witnessed a growing and evolving multimedia content delivery market based on information gathering, manipulation, and dissemination. It is a fact that personal communications, computing, broadcasting, entertainment, etc. have turned into streams of multimedia content, and the various communication and network technologies have become the means to carry that content to a wide variety of terminals. Unlike traditional communication systems, a fundamental challenge for present and future communication systems is the ability to transport multimedia content over a variety of networks efficiently at different channel conditions and bandwidth capacities with various requirements of quality-of-service. There are many issues that need to be addressed, such as signal processing, collaborations, power management, flexible delivery, dynamic access, telecommunications, networking, etc., due to the multidisciplinary nature of the applications in advanced multimedia communications and services. The goal of this symposium is to bring together the state-of-the-art research contribution that describes original and unpublished work addressing the new emerging techniques on multimedia communications and services.

Topics of interest include, but are not limited to, the following scopes:

- Multimedia Communications
- Cross-layer optimization strategies for wireless multimedia
- Cross-System optimization strategies for wireless multimedia
- Multimedia services in next generation networks
- Wireless multimedia sensor networks
- Multimedia applications for service-oriented computing
- Mobile, peer-to-peer and pervasive multimedia services in clouds
- P2P Multimedia for autonomic wireless infrastructures
- Novel wireless and mobile multimedia applications and services
- Security issues for Internet multimedia streaming
- Multimedia streaming data broadcasting systems
- Multimedia indexing, processing and retrieval
- Content-aware multimedia distribution
- Multimedia and multimodal interaction models
- Trusted computing in wireless multimedia systems
- MIMO techniques for multimedia delivery
- Distributed source coding, and lightweight multimedia encoding techniques
- Semantic annotation for multimedia streams processing and management

- Protocols for supporting real-time and reliable multimedia streaming
- New middleware, system, and underlying infrastructure
- Joint multimedia processing and communication solutions
- Capacity modeling, performance analysis, and theoretical analysis
- Multimedia aggregation and fusion, and multimedia sensor coverage
- Multimedia traffic on cognitive radio networks
- In-network and distributed storage techniques
- Low-bit rate and energy-efficient multimedia source coding
- Energy-efficient multimedia gathering, transmission, traffic management
- Context/content aware approaches for facilitating multimedia streaming
- IPTV, 3DTV, and mobile TV-related efforts
- Enabling multimedia capability in E-healthcare, smart house, etc.
- Frontiers in game theory and multimedia systems
- Ubiquitous and “green” multimedia design next-generation networks
- Energy-efficient and scalable control in next-generation wireless video terminals
- Multimedia communications in new emerging systems
- Collaborative in-network processing
- Distributed coding and joint source-channel coding
- Resource allocation and system scheduling

Important dates

- ◆ Papers Submission Deadline: December 15, 2011
- ◆ Paper Notification of Acceptance: March 15, 2012
- ◆ Camera-ready Paper Submissions: April 30, 2012
- ◆ Full papers Submission Deadline: April 30, 2012

Guideline for Authors

Authors are invited to submit original unpublished work, not currently under review by another conference, workshop or journal. Full papers should be restricted to 6 camera-ready pages, including text, figures and references. Authors should use only standard fonts, i.e. Times Roman, Courier, Symbol, Helvetica or equivalent. Papers must be submitted electronically via EDAS (<http://edas.info/newPaper.php?c=11221&track=17885>). All papers must include a title, a complete contact information of all authors, abstract and up to 5 keywords on the cover page. The corresponding author must be clearly identified. Further information can be found at the Symposium URL. Submitted papers will be reviewed by three independent experts in the field. Proceedings of the symposium will be published together with those of other IWCMC symposia and workshops, and will be available in digital format from the IEEE/ACM Digital Library (approval pending).

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