



CALL FOR PAPERS

# MobiCom 2009

## The Fifteenth Annual International Conference on Mobile Computing and Networking

September 20-25, 2009 • Beijing, China  
<http://www.sigmobile.org/mobicom/2009/>

Sponsored by ACM SIGMOBILE



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### IMPORTANT DATES:

Abstracts submission due:

March 5, 2009

Paper submission due:

March 12, 2009

Notification of acceptance:

June 19, 2009

Camera-ready version due:

July 15, 2009

ACM MobiCom 2009, the Annual International Conference on Mobile Computing and Networking, is the fifteenth in a series of annual conferences sponsored by ACM SIGMOBILE dedicated to addressing the challenges in the areas of mobile computing and wireless and mobile networking. MobiCom 2009 will be held in September 20-25 in Beijing.

The MobiCom conference series serves as the premier international forum addressing networks, systems, algorithms, and applications that support mobile computers and wireless networks. MobiCom is a highly selective conference focusing on all issues in mobile computing and wireless and mobile networking *at the link layer and above*. Besides the regular conference program, MobiCom'09 will also include a set of workshops and tutorials, panels, research demos and exhibits, and a poster session that includes the ACM Student Research Competition. More information on these activities, including submission deadlines, can be found at <http://www.sigmobile.org/mobicom/2009/>.

**PAPERS:** Authors are invited to submit full papers presenting new research related to the theory and/or practice of mobile computing and/or wireless and mobile networking at the link layer and above. All submissions must describe original research, not published or currently under review for another conference or journal. Areas of interest include, but are not limited to:

- Design, implementation, and evaluation of mobile systems and applications
- Operating system and middleware support for mobile computing and networking
- Fundamental understanding of mobile computing and wireless networking
- Architectures, protocols, and algorithms to cope with mobility, limited bandwidth, limited power and/or intermittent connectivity
- Wireless and mobile techniques for delay-tolerant, mobile ad hoc, and wireless sensor networks
- Security, privacy, and trustworthiness of mobile and wireless systems
- Wireless access technologies (e.g. mesh systems, personal area networks)
- Integration and interworking of wired and wireless networks
- Protocols exploiting novel technologies such as UWB, MIMO, directional antennas, and software radios
- Techniques for dynamic spectrum use
- Architectures, algorithms and protocols for cognitive wireless networks and their integration in the Internet
- Modeling, simulation, emulation and measurement of mobile systems
- Experimental test-beds for mobile/wireless networks
- Performance evaluation of mobile and wireless networks, protocols, and systems
- Next generation (beyond 802.11) wireless technologies and related systems and protocols

MobiCom'09 will be a diverse conference and we strongly encourage the submission of mobile systems, experimental and theoretical papers. The program committee will evaluate each paper using metrics that are appropriate for the topic area. For example, a systems or experimental paper in the protocol area will be evaluated based on the innovations in the protocol design, practical implementation, and realistic evaluation, whereas a more theoretical paper may be evaluated mostly based on innovation within the algorithm design. At the same time, the evaluation of wireless and mobile networking technologies is challenging because of the significant impact that the physical environment has on performance. For this reason, all papers must carefully describe and justify the evaluation methodology that is used and identify its strengths and weaknesses.

Wireless and mobile networks are being used in a wide variety of application contexts, such as sensor networks, pervasive computing, disruption tolerant networking, and vehicular networks. Papers that describe research and experimentation in such environments are encouraged, but the focus of such papers should be on addressing challenges associated with mobility and wireless networking.

The program committee will referee all papers, and accepted papers will be published in the conference proceedings.

**CHALLENGES PAPERS:** The conference strongly encourages the submission of short papers in the field of mobile computing and wireless networking that present revolutionary new ideas or that challenge existing assumptions prevalent among the research community. These "challenges papers" should provide stimulating ideas or visions that may open up exciting avenues and/or influence the direction of future research. Descriptions of new products or evolution of existing work are not appropriate topics for papers in this category. While an exhaustive evaluation of the proposed ideas is not necessary, insight and in-depth understanding of the issues is expected. Challenges papers will be reviewed by the MobiCom program committee and will be part of the technical program and published in ACM MobiCom proceedings. They should be submitted using the same submission procedure adopted for the full papers. The title of these papers must start with the word "Challenges:" i.e., "Challenges: Rest of the Title."

**SUBMISSION INSTRUCTIONS:** All paper submissions will be handled electronically. Authors should prepare a PDF or PostScript version of their full paper. Papers must be no longer than 12 pages (8 pages for "Challenges" papers), in font size no smaller than 10 points, and must fit properly on US "Letter"-sized paper (8.5x11 inches) with 1-inch margins. Detailed instructions on the paper submission procedure and format will be available on the conference web pages. The deadline for registering the title and the abstract of the paper with our electronic submission system is **March 5, 2009** and the deadline for submitting the actual paper is **March 12, 2009**. All deadlines are 11:59PM PST.

All submitted papers will be judged based on their quality through double-blind reviewing, where the identities of the authors are withheld from the reviewers. Authors' names must not appear in the paper or in the PostScript or PDF file. Submitted papers (or substantially similar papers) must not be currently under review for any other publication. Please direct any questions about the paper submission process to the Program Co-Chairs at [mobicom09\\_pcchairs@acm.org](mailto:mobicom09_pcchairs@acm.org).

**BEST PAPER AWARD:** All papers will be considered for the *Best Paper Award*. The program committee will select a number of candidates for the award among accepted papers. The winner will be selected at the conference, considering both the paper and the presentation. The winner will receive a plaque and a cash award.