

CALL FOR PAPERS

MobiCom 2010

The Sixteenth Annual International Conference on Mobile Computing and Networking

(Co-located with ACM MobiHoc 2010)

Late September, 2010 ● Chicago, IL, USA
<http://www.sigmobile.org/mobicom/2010/>

Sponsored by ACM SIGMOBILE



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ACM MobiCom 2010, the Annual International Conference on Mobile Computing and Networking, is the sixteenth 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. The conference will be held in Chicago, IL, USA, in late September, 2010.

The MobiCom conference series serves as a highly selective, premier international forum addressing networks, systems, algorithms, and applications that support mobile computers and wireless networks. Besides the regular conference program, MobiCom'10 will also include a set of workshops and tutorials, panels, research demonstrations, 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/2010/>.

PAPERS: Authors are invited to submit full papers presenting new research related to the theory and/or practice of mobile computing and/or wireless networking. Areas of interest include, but are not limited to:

- Architectures, protocols, and algorithms for various wireless and mobile networks, such as wireless LANs, wireless mesh networks, cellular data networks, delay-tolerant networks, mobile ad hoc networks, sensor networks, personal area networks, and vehicular networks
- Design, implementation, and evaluation of wireless systems and mobile applications
- Algorithms and models for wireless networks and mobile applications
- Fundamental understanding of mobile computing and wireless networking
- Measurements and performance evaluation of mobile and wireless networks
- Cross-layer design for mobile and wireless networks ranging from the PHY layer to applications
- Networks involving novel technologies such as UWB, MIMO, directional antennas, and software radios
- Architectures, algorithms and protocols for dynamic spectrum usage, white spaces, and cognitive networks
- Techniques that deal with low power and energy limitations
- Operating system and middleware support for mobile computing and networking
- Security, privacy, and trustworthiness of mobile and wireless systems
- Integration and interworking of wired and wireless networks
- Emerging topics, e.g., social networking applications enabled by mobile and wireless networking systems

MobiCom'10 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.

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 "Challenge:" i.e., "Challenge: 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 (i) be no longer than 12 pages (8 pages for "Challenges" papers), (ii) be in font size no smaller than 10 points, (iii) have pages in double column format with each column having dimensions 9.25" X 3.33", a space of 0.33" between the two columns, and with no more than 55 lines of text per column, and (iv) fit properly on US "Letter"-sized paper (8.5" X 11"). More detailed instructions will be available in the conference web pages.

This year, **authors will be given the option of submitting three content slides that summarize their paper and its contributions.** The slides will not be revealed to the reviewers until just before the TPC meeting. They will be used *only* to better facilitate discussions during the TPC meeting. They will be due a week after the paper submission deadline. More details on the motivation of the slides and its exact formatting instructions are available on the submission webpage.

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 must be original work, and a paper with substantial similarity must neither be already published, nor be currently under review for publication in any other venue. Please direct any questions about the paper submission process to the Program Co-Chairs at mobicom_pchairs@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.

FOR MORE INFORMATION:

Please contact the General Chair or Program Co-Chairs for more information. For information on ACM SIGMOBILE and the MobiCom series of conferences, see <http://www.sigmobile.org/> or contact mobicom_info@acm.org

IMPORTANT DATES:

Abstract submission due:
March 5, 2010 (11:59PM PST)

Paper submission due:
March 12, 2010 (11:59PM PST)

Notification of acceptance:
June 21, 2010

Camera-ready version due:
July 15, 2010