

Call for Papers

The 4th ACM International Workshop on Mobility in the Evolving Internet Architecture (MobiArch 2009)

Co-located with MobiSys, 22 June 2009, Kraków, Poland

<http://user.informatik.uni-goettingen.de/~mobiarch/2009/>

With the recent development of technologies in wireless access and mobile devices, user, terminal, and network mobility has become an indispensable component of today's Internet vision, and it is likely to continue in the near future, while affecting the whole architectural design of the future Internet. Yet, issues like efficient mobility management and optimization, locator-identifier split, multi-homing, security, wireless access and related operational/deployment concerns are still in their early stages of development. Moreover, the Internet architecture, its end-to-end principles, and business models will require rethinking due to the massive penetration of mobility into the Internet. For instance, an appropriate system that allows communicating with a mobile host requires addressing several fundamental issues with the Internet architecture, such as ability to locate the mobile host/service, preserving ongoing communications upon changes of locations, as well as efficient and secure handover management. As another example, the emerging wireless technologies may pose additional challenges to the Internet architecture since they introduce design principles different from the original Internet.

MobiArch 2009 welcomes submissions, from both researchers and practitioners, in exploration of recent advances in architectures, protocols, and experiences with emerging technologies on various mobility issues over the Internet, with an emphasis on wireless infrastructures and mobility patterns for mobility support, new mobility protocols, service discovery, routing and location management, mobile network performance evaluation and modelling, multi-homing, security, architectural impacts and deployment considerations. Furthermore, the potential of usability of mobility services for connecting people and devices in developing regions of the world into the Internet infrastructure will be also explored.

Topics of MobiArch 2009 cover all aspects of architectural issues and system support for mobility in the Internet, including but not limited to:

- Impacts of new wireless technologies/services, networking technologies, and mobility patterns on the Internet architecture
- Architectures and protocols for mobility support in the Internet, ranging from approaches in link, network, transport to session/application layers and cross-layer design
- Location management, routing, locator/identifier split, multi-homing and load sharing issues
- Security and privacy issues in mobility networks and impacts to Internet architecture
- Architectures and mechanisms for wireless/mobile connectivity in extreme environments (e.g., remote areas, developing countries)
- Performance issues with mobility in the Internet
- QoS and middlebox issues in mobility networks and impacts to Internet architecture
- Economic and deployment issues of mobility solutions (infrastructure and devices)
- Impact of social aspects on mobility architectures, mobile application and protocol design
- Technologies for mobile wireless access and interactions

Submissions must present original results. Selected papers will be forward-looking, describe their relationship to existing work, and have impact and implications for ongoing or future research.

Paper format and submission instructions:

Submitted papers must be no more than 6 pages long, two columns, with no characters in smaller than 10 point fonts, and must fit properly on US "Letter"-sized paper (8.5x11 inches). Margins must be of 1 inch on all edges (top, bottom, left, and right) of each page. All paper submission will be handled via EDAS (<http://edas.info/7188>). Papers will be reviewed single blind.

Important Dates:

Submission Deadline:	22 February 2009
Acceptance Notification:	31 March 2009
Camera Ready Due:	15 April 2009
Workshop Date:	22 June 2009

Organizers / TPC Chairs:

Jörg Ott	Helsinki University of Technology (TKK)
Kun Tan	Microsoft Research Asia

Technical Program Committee (preliminary):

Rui Aguiar, Universidade de Aveiro (Portugal)
Bengt Ahlgren, SICS (Sweden)
Marcelo Bagnulo, UC3M (Spain)
Jon Crowcroft, University of Cambridge (UK)
Wes Eddy, NASA GRC (USA)
Lars Eggert, Nokia Research Center (Finland)
Xiaoming Fu, Universität Göttingen (Germany)
Katherine Guo, Bell Labs (USA)
Seung-Jae Han, Yonsei U (Korea)
Ravi Kokku, NEC Laboratories (USA)
Thomas Noel, Universite Strasbourg (France)
Injong Rhee, NC State University (USA)
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Hideaki Sunahara, NARA Inst. of Sci. & Tech. (Japan)
Fumio Teraoka, Keio U. (Japan)
Christian Vogt, Ericsson (Finland)
Klaus Wehrle, RWTH Aachen (Germany)
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Lixia Zhang, UCLA (USA)