MobiArch 2006

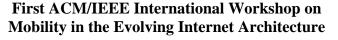**First ACM/IEEE International Workshop on Mobility in the Evolving Internet Architecture**

Dec 1, 2006 – San Francisco, California, USA

Sponsored by IEEE Communications Society

In-cooperation with ACM SIGCOMM and SIGMOBILE
In conjunction with IEEE GLOBECOM 2006, Nov 27-Dec 1, 2006, San Francisco, CA, USA

WEBPAGE

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

IMPORTANT DATES

- **Advanced registration:** October 30, 2006
- **Workshop:** December 1, 2006, 9:00-17:00

KEYNOTE SPEAKERS

- **Charles Perkins**, Nokia Research Center (US)
- **Henning Schulzrinne**, Columbia University (US)

GENERAL CHAIR

- **Jon Crowcroft,** University of Cambridge (UK)

PROGRAM CO-CHAIRS

- **Xiaoming Fu,** University of Goettingen (DE)
- **Katherine Guo,** Bell Labs (USA)

PROGRAM COMMITTEE

- **Jari Arkko**, Ericsson (FI)
- **Raouf Boutaba**, U. Waterloo (CA)
- **Kwok-Ho Chan,** Nortel Networks (US)
- **Jon Crowcroft**, U. Cambridge (UK)
- **Wesley Eddy**, NASA/Verizon (US)
- **Xiaoming Fu**, U. Goettingen (DE)
- **Ivano Guardini**, Telecom Italia Lab (IT)
- **Katherine Guo**, Bell Labs (US)
- **Dieter Hogrefe**, U. Goettingen (DE)
- **Yuming Jiang**, NTNU (NO)
- **Cornelia Kappler**, Siemens (DE)
- **Rajeev Koodli,** Nokia Research Center (US)
- **Ben Liang**, U. Toronto (CA)
- **John Loughney**, Nokia Research Center (FI)
- **Joerg Ott**, Helsinki U of Techology (FI)
- **Charles Perkins**, Nokia Research Center (US)
- **Christian Prehofer**, DoCoMo Euro-Labs (DE)
- **Henning Schulzrinne**, Columbia U. (US)
- **Hannes Tschofenig,** Siemens (DE)
- **Yabin Ye**, Create-Net (IT)
- **Zhi-Li Zhang,** U. Minnesoda (US)
- **Taieb Znati**, U. Pittsburg/NSF (US)

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CALL FOR PARTICIPATION

With the recent development of technologies in wireless access and mobile devices, terminal and network mobility have become an indispensable component of today's Internet vision, and this is likely to continue in the near future, while affecting the way of the whole Internet architecture design. Yet, issues like efficient mobility management and optimizations, locator-identifier split, multi-homing, security 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.

MobiArch'06 welcomes participation, both from researchers and practitioners, in the exploration of recent advances in architectures, protocols, and experiences with emerging technologies on mobility support in the Internet, with an emphasis on new mobility protocols, mobility and location management, mobile network performance, multi-homing, security, architectural impacts and deployment considerations.

The workshop will include presentations and discussions of accepted technical papers, as well as invited talks and panel sessions. The proceedings will be published by ACM and ACM digital library.

TOPICS

Topics of MobiArch'06 cover all aspects of architectural issues and system support for mobility in the Internet, including but not limited to:

- Mobility impact on the Internet architecture
- Architectures and protocols for mobility support in the Internet, ranging from approaches in link layer, network, transport to session/application layers and cross-layer design
- Locator/identifier split, multihoming and load sharing issues
- Security and privacy issues in mobility networks and impacts to Internet architecture
- QoS and middlebox issues in mobility networks and impacts to Internet architecture
- Economic and deployment issues of mobility infrastructure design

LIST OF MOBIARCH'06 ACCEPTED PAPERS

1. *Application Protocol Design Considerations for a Mobile Internet*
   Joerg Ott (Helsinki University of Technology, FI)

2. *CogNet - An Architecture for Experimental Cognitive Radio Networks within the Future Internet*
   Dipankar Raychaudhuri (Rutgers Univ., US); Narayan Mandayam (WINLAB, Rutgers University, US);
   Joseph Evans (University of Kansas, US); Benjamin Ewy (University of Kansas, US); Srinivasan Seshan
   (Carnegie Mellon University, US); Peter Steenkiste (Carnegie Mellon University, US)

3. *Deploying Home Agent Load Sharing in Operational Mobile IPv6 Networks*
   Wolfgang Fritsche (IABG, DE); Ivano Guardini (Telecom Italia Lab, IT)

4. *GSABA: A Generic Service Authorization Architecture*
   Florian Kohlmayer (Siemens AG, DE); Rafael Marin (University of Murcia, ES); Hannes Tschofenig
   (Siemens AG, DE); Pedro Segura (Universidad de Murcia, ES); Rainer Falk (Siemens AG, DE);
   Antonio Gomez-Skarmeta (University of Murcia, ES); Santiago Zapata (University of Murcia, ES)

5. *HIP Location Privacy Framework*
   Alfredo Matos (Universidade de Aveiro, PT); Justino Santos (Universidade de Aveiro, PT); Joao Girao
   (NEC Europe Ltd., DE); Marco Liebsch (NEC Europe Ltd, DE); Susana Sargento (Universidade de Aveiro,
   PT); Rui Aguiar (Universidade de Aveiro, PT)

6. *Mobility Architecture for the Global Internet*
   Phil Roberts (Motorola Labs, US); James Kempf (DoCoMo Labs, US)

7. *MobiSplit: a Scalable Approach to Emerging Mobility Networks*
   Julien Abeille (NEC Europe Ltd, DE); Rui Aguiar (Universidade de Aveiro, PT); Telemaco Melia (NEC
   Europe Ltd, DE); Patrick Stupar (Telecom Italia Lab, IT); Ignacio Soto (University Carlos III of Madrid, ES)

8. *Optimized FMIPv6 Handover using IEEE 802.21 MIH Services*
   Qazi Mussabbir (Brunel University, UK); Wenbing Yao (Brunel University, UK)

9. *Protecting Mobile Devices from TCP Flooding Attacks*
   Yogesh Swami (Nokia Research Center, US); Hannes Tschofenig (Siemens AG, DE)

10. *Signalling Cost Analysis of SINEMO: Seamless End-to-End Network Mobility*
    Abu Ahmed Reaz (University of Oklahoma, US); Pulak Chowdhury (Univ of Oklahoma, US); Mohammed
    Atiquzzaman (University of Oklahoma, US); William Ivancic (NASA Glenn Research Center, US)

11. *Towards More Expressive Transport-Layer Interfaces*
    Lars Eggert (NEC Europe Ltd, DE); Wesley Eddy (Verizon / NASA, US)