# MobiSys 2008

The Sixth International Conference on
Mobile Systems, Applications, and Services

Breckenridge, Colorado
June 17–20, 2008

## Tuesday, June 17th

| | |
|---|---|
| *Imperial Ballroom* | HealthNet 2008: The Second International Workshop on Systems and Networking Support for Health Care and Assisted Living Environments |
| *Coppertop III* | MobiVirt 2008: The Workshop on Virtualization in Mobile Computing |
| *Coppertop II* | PhD Forum |
| *Peaks 6–8* | Thick Mobile Client Programming Technologies: Python for S60 and J2ME |

## Wednesday, June 18th

| | | |
|---|---|---|
| 7:30–8:30 a.m. | Breakfast | *South Foyer, Third Floor* |
| 8:30–9:00 a.m. | Welcome and opening remarks | *Peak 5 Ballroom* |
| 9:00–10:00 a.m. | Keynote Address: Roy Want, Intel | *Peak 5 Ballroom* |
| 10:00–10:30 a.m. | Break | *South Foyer, Third Floor* |
| 10:30 a.m.–Noon | Transportation Sense | *Peak 5 Ballroom* |
| Noon–1:30 p.m. | Lunch | *Tent (N^2 Women in Peaks 6–8)* |
| 1:30–3:00 p.m. | Stretching WiFi | *Peak 5 Ballroom* |
| 3:00–3:30 p.m. | Break | *South Foyer, Third Floor* |
| 3:30–5:00 p.m. | Browsing Remotely | *Peak 5 Ballroom* |
| 5:00–7:00 p.m. | Poster and Demo Session | *Peak 4 Ballroom* |

## Thursday, June 19th

| | | |
|---|---|---|
| 7:30–8:30 a.m. | Breakfast | *South Foyer, Third Floor* |
| 8:30–10:00 a.m. | Wireless Adaptation | *Peak 5 Ballroom* |
| 10:00–10:30 a.m. | Break | *South Foyer, Third Floor* |
| 10:30 a.m.–Noon | Experience With Pervasive Applications | *Peak 5 Ballroom* |
| Noon–1:30 p.m. | Lunch | *Tent (CRAWDAD in Peaks 6–8)* |
| 1:30–3:00 p.m. | Panel Discussion | *Peak 5 Ballroom* |
| 3:00–3:30 p.m. | Break | *South Foyer, Third Floor* |
| 3:30–4:30 p.m. | Privacy and Security | *Peak 5 Ballroom* |
| 4:30–5:00 p.m. | Works in Progress | *Peak 5 Ballroom* |
| 5:00–8:00 p.m. | Banquet | *Chuckwagon (Board buses in Lobby)* |

## Friday, June 20th

| | | |
|---|---|---|
| 8:00–9:00 a.m. | Breakfast | *South Foyer, Third Floor* |
| 9:00–10:00 a.m. | Detection of Security Problems | *Peak 5 Ballroom* |
| 10:00–10:30 a.m. | Break | *South Foyer, Third Floor* |
| 10:30 a.m.–Noon | Context Monitoring | *Peak 5 Ballroom* |

# Wednesday, June 18th

| 7:30–8:30 a.m. | **Breakfast** | *South Foyer, Third Floor* |

| 8:30–9:00 a.m. | **Welcome and opening remarks** | *Peak 5 Ballroom* |

**9:00–10:00 a.m.**          **Keynote Address**          *Peak 5 Ballroom*
Roy Want, Intel, "Life, the Universe, and the Future of Mobile Computing"

| 10:00–10:30 a.m. | **Break** | *South Foyer, Third Floor* |

**10:30–Noon**          **Transportation Sense**          *Peak 5 Ballroom*
Session Chair: Maria R. Ebling

**BriMon: A Sensor Network System for Railway Bridge Monitoring**
Kameswari Chebrolu, Bhaskaran Raman, Nilesh Mishra, Phani Kumar Valiveti, Raj Kumar

**Virtual Trip Lines for Distributed Privacy-Preserving Traffic Monitoring**
Baik Hoh, Marco Gruteser, Ryan Herring, Jeff Ban, Dan Work, Juan-Carlos Herrera, Alexandre Bayen, Murali Annavaram, Quinn Jacobson

**The Pothole Patrol: Using a Mobile Sensor Network for Road Surface Monitoring**
Jakob Eriksson, Lewis Girod, Bret Hull, Ryan Newton, Samuel Madden, Hari Balakrishnan

**Noon–1:30 p.m.**          **Lunch**          *Tent outside*
In Peaks 6–8, Maria Ebling will give a talk on remote patient monitoring to the N^2 Women group. Sign up at the registration desk if you're interested in attending.

**1:30–3:00 p.m.**          **Stretching WiFi**          *Peak 5 Ballroom*
Session Chair: Anthony LaMarca

**Improving Wireless Privacy with an Identifier-Free Link Layer Protocol**
Ben Greenstein, Damon McCoy, Jeffrey Pang, Tadayoshi Kohno, Srinivasan Seshan, David Wetherall

**Supporting Vehicular Mobility in Urban Multi-hop Wireless Networks**
Anastasios Giannoulis, Marco Fiore, Edward W. Knightly

**ComPoScan: Adaptive Scanning for Efficient Concurrent Communications and Positioning with 802.11**
Thomas King, Mikkel Baun Kjærgaard

| 3:00–3:30 p.m. | **Break** | *South Foyer, Third Floor* |

**3:30–5:00 p.m.**          **Browsing Remotely**          *Peak 5 Ballroom*
Session Chair: Mark Corner

**Flashproxy: Transparently Enabling Rich Web Content via Remote Execution**
Alexander Moshchuk, Steven D. Gribble, Henry M. Levy

**Enhancing Web Browsing Security on Public Terminals using Mobile Composition**
Roy Want, Trevor Pering, Richard Sharp, Anil Madhavapeddy

**Design, Analysis, and Implementation of a Large-scale Real-time Location-based Information Sharing System**
Ying Cai, Toby Xu

| 5:00–7:00 p.m. | **Poster and Demo Session** | *Peak 4 Ballroom* |

## Thursday, June 19th

| 7:30–8:30 a.m. | **Breakfast** | *South Foyer, Third Floor* |

**8:30–10:00 a.m.**        **Wireless Adaptation**        *Peak 5 Ballroom*

Session Chair: Ranveer Chandra

**Efficient Channel-aware Rate Adaptation in Dynamic Environments**
Glenn Judd, Xiaohui Wang, Peter Steenkiste

**Synchronous Two-phase Rate and Power Control in 802.11 WLANs**
Kishore Ramachandran, Ravi Kokku, Honghai Zhang, Marco Gruteser

**Micro Power Management of Active 802.11 Interfaces**
Jiayang Liu, Lin Zhong

| 10:00–10:30 a.m. | **Break** | *South Foyer, Third Floor* |

**10:30–Noon**        **Experience With Pervasive Applications**        *Peak 5 Ballroom*

Session Chair: M. Satyanarayanan

**PeopleTones: A System for the Detection and Notification of Buddy Proximity on Mobile Phones**
Kevin Li, Timothy Sohn, Steven Huang, William Griswold

**Micro-Blog: Sharing and Querying Content Through Mobile Phones and Social Participation**
Shravan Gaonkar, Jack Li, Romit Roy Choudhury, Landon Cox

**Sherlock: Automatically Locating Objects for Humans**
Aditya Nemmaluri, Mark D. Corner, Prashant Shenoy

**Noon–1:30 p.m.**        **Lunch**        *Tent outside*

The CRAWDAD group will have a get-together lunch in Peaks 6–8. Sign up at the registration desk if you're interested in attending.

**1:30–3:00 p.m.**        **Panel Discussion: Is that legal?**        *Peak 5 Ballroom*

Moderator: Dirk Grunwald

Panelists:
Kevin Fu
Marco Gruteser
Tadayoshi Kohno
Paul K Ohm

| 3:00–3:30 p.m. | **Break** | *South Foyer, Third Floor* |

**3:30–4:30 p.m.**        **Privacy and Security**        *Peak 5 Ballroom*

Session Chair: Tadayoshi Kohno

**Trustworthy and Personalized Computing on Public Kiosks**
Scott Garriss, Ramón Cáceres, Stefan Berger, Reiner Sailer, Leendert van Doorn, Xiolan Zhang

**AnonySense: An Architecture for Privacy-Aware Urban Sensing**
Cory Cornelius, Apu Kapadia, David Kotz, Dan Peebles, Minho Shin, Nikos Triandopoulos

| 4:30–5:00 p.m. | **Works-in-Progress Session** | *Peak 5 Ballroom* |

**5:00–8:00 p.m.**        **MobiSys Banquet**        *Happy Trails Chuckwagon*

Grab your jacket and meet the buses outside the hotel lobby.

Friday, June 20th

| 8:00–9:00 a.m. | **Breakfast** | *South Foyer, Third Floor* |

| 9:00–10:00 a.m. | **Detection of Security Problems** | *Peak 5 Ballroom* |

Session Chair: Landon Cox

**Behavioral Detection of Malware on Mobile Handsets**
Abhijit Bose, Xin Hu, Kang G. Shin, Taejoon Park

**On Detecting Energy-Greedy Anomalies**
Hahnsang Kim, Joshua Smith, Kang G. Shin

| 10:00–10:30 a.m. | **Break** | *South Foyer, Third Floor* |

| 10:30–Noon | **Context Monitoring** | *Peak 5 Ballroom* |

Session Chair: Lin Zhong

**SixthSense: RFID-based Enterprise Intelligence**
Lenin Ravindranath, Venkata N. Padmanabhan, Piyush Agrawal

**SeeMon: Scalable and Energy-efficient Context Monitoring Framework for Sensor-rich Mobile Environments**
Seungwoo Kang, Jinwon Lee, Hyukjae Jang, Hyonik Lee, Youngki Lee, Taiwoo Park, Junehwa Song

**Cascadia: A System for Specifying, Detecting, and Managing RFID Events**
Evan Welbourne, Nodira Khoussainova, Julie Letchner, Yang Li, Magda Balazinska, Gaetano Borriello, Dan Suciu

Find an electronic version of the MobiSys 2008 program at:

http://www.sigmobile.org/mobisys/2008/

For updates during the conference, follow MobiSys on Twiiter at:

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