Wednesday July 7, 2004

09:00 **Keynote Talk** **Room 16-G-15**
Session Chair: Gustavo Alonso

Beyond Google: P2P Technology for Improved Web Search
Gerhard Weikum, Max-Planck-Institut für Informatik, Saarbrücken, Germany

10:15 **Break**

10:45 **Technical Session C1: Location and Positioning** **Room 16-G-15**
Session Chair: Karl Aberer

The Lighthouse Location System for Smart Dust
Kay Roemer, ETH Zurich, Switzerland

Peering into DHT Routing
Anwitaman Datta and Karl Aberer, EPF Lausanne, Switzerland

Connectivity-Based Multi-Hop Ad-hoc Positioning
Regina O'Dell, ETH Zurich, Switzerland

10:45 **Technical Session C2: Lower Layers** **Room 16-G-05**
Session Chair: Matthias Grossglauser

Finite-Length Scaling in Iterative Decoding
Abdelaziz Amraoui, EPF Lausanne, Switzerland

Software-Defined Radio - A Versatile Tool for Research and Teaching
Nicolae Chiurtu, EPF Lausanne, Switzerland

Low Power Downlink MAC Protocols for Infrastructure Wireless Sensor Networks
Amre El-Hoiydi, CSEM Neuchâtel, Switzerland

12:15 **End of Workshop**

Venue

University of Zurich, Irchel Campus, Winterthurerstrasse 190, CH-8057 Zurich
Building 16, G-Floor (enter Building 36 and go one floor down)
Maps and directions: http://www.ifi.unizh.ch/req/events/MICS2004/venue.html

From Zurich Main Station: Tram lines 7 or 14 to Milchbuck or line 10 to Irchel
Timetables and maps: http://www.vbz.ch
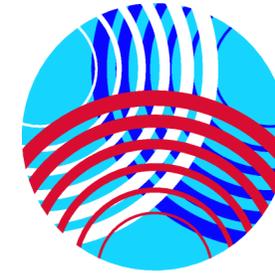
MICS – Mobile Information and Communication Systems

Annual Workshop 2004

University of Zurich
July 6-7, 2004

Program

Tuesday July 6, 2004

09:00   Welcome   Room 16-G-15

Martin Glinz, University of Zurich, Workshop Chair
Thomas Gross, NCCR MICS Deputy Chair

09:10   Keynote Talk   Room 16-G-15
        Session Chair: Roger Wattenhofer

Opportunities and Challenges of Community Wireless Networks
Victor Bahl, Microsoft Research, USA

10:15   Break

10:45   Survey Session   Room 16-G-15
        Session Chair: Martin Glinz

Programming the Invisible Disappearing Computer
Thomas Gross, ETH Zurich, Switzerland

The WiseNET™ Project - An Ultra-low Power Solution for Wireless Sensor Network
Christian Enz, CSEM Neuchâtel and EPF Lausanne, Switzerland

Bluetooth Security
Serge Vaudenay, EPF Lausanne, Switzerland

12:15   Poster and Demo Session with Lunch

While eating, stroll around and see the posters and demos of MICS researchers

14:00   Technical Session A1: Systems and Architectures   Room 16-G-15
        Session Chair: Christian Enz

A Survey of Sensor Network Programming Paradigms
Maxim Raya, CSEM Neuchâtel and EPF Lausanne, Switzerland

Disruptions in m-Payment
Jan Ondrus, University of Lausanne, Switzerland

Runtime Adaptation of Applications through Dynamic Reconfiguration
Arun Mukhija, University of Zurich, Switzerland

14:00   Technical Session A2: Networking   Room 16-G-05
        Session Chair: Jean-Pierre Hubaux

Beacon-Less Routing as a Possibility to Enhance Position-Based Routing
Marc Heissenbüttel, University of Bern, Switzerland

Radio Frequency Identification Systems in our Daily Lives
Gildas Avoine, EPF Lausanne, Switzerland

Feedback Communication over Unknown Channels
Aslan Tchamkerten, EPF Lausanne, Switzerland

15:30   Break

16:00   Technical Session B1: Applications   Room 16-G-15
        Session Chair: Thomas Gross

Network Correlated Data Gathering
Razvan Cristescu, EPF Lausanne, Switzerland

Preliminary Investigation of Ad Hoc Networks with (Moving) Cars
Valeri Naoumov and Rainer Baumann, ETH Zurich, Switzerland

16:00   Technical Session B2: Analysis   Room 16-G-05
        Session Chair: Jean-Yves Le Boudec

Closing the Gap in the Capacity of Random Wireless Networks
Olivier Dousse, EPF Lausanne, Switzerland

Optimal Power Control, Scheduling and Routing in UWB Networks
Bozidar Radunovic, EPF Lausanne, Switzerland

17:00   Discussion Session   Room 16-G-15
        Session Chair: Martin Vetterli

Renewal of NCCR MICS
Discussion Leaders: Karl Aberer and Martin Vetterli, EPF Lausanne, Switzerland

17:30   End of first workshop day

17:30   Meeting of MICS Scientific Board and MICS Faculty

19:15   Dinner for MICS Scientific Board, MICS Faculty and invited guests