

DCOSS '06 WORKSHOP

EURO-AMERICAN WORKSHOP ON MIDDLEWARE FOR SENSOR NETWORKS (EAWMS)

SUNDAY, JUNE 18, 2006

8:00 am – 9:00 am Continental Breakfast

9:00 am – 9:15 am Opening Remarks: Stefan Fischer (*Chair*)

9:15 am - 10:30 am SESSION 1

- FABRIC: Towards Data Type-centric Middleware Synthesis
Dennis Pfisterer, Horst Hellbrück, Stefan Fischer (University of Löbeck, Germany)
- Rule-Oriented Programming for Wireless Sensor Networks
Kirsten Terfloth, Georg Witteburg, Joschen Schiller (Freie Universität Berlin, Germany)

Discussion

10:30 am – 10:45 am Break

10:45 am – 12:00 pm SESSION 2

- Transiently Shared Tuple Spaces for Sensor Networks
Amy L. Murphy (University of Lugano, Switzerland), Gian Pietro Picco (Politecnico di Milano, Italy)
- Sensor Network Middleware for Managing a Cross-Layer Architecture
Christophe J. Merlin, Wendi B. Heinzelman (University of Rochester, USA)

Discussion

12:00 pm – 1:00 pm LUNCH (on your own)

1:00 pm – 2:15 pm SESSION 3

- Frugal Mobile Objects
Benoit Garbinato (University of Lausanne, Switzerland), Rachid Guerraoui, Jarle Hulaas, Maxime Monod, Jesper H. Spring (EPFL, Switzerland)
- Resource-Aware Service Architecture for Collaboration of Sensor Nodes
Jan Blumenthal, Dirk Timmermann (University of Rostock, Germany)

Discussion

2:15 pm – 2:30 pm Break

2:30 pm – 3:45 pm SESSION 4

- Distributed Mining of Spatio-Temporal Event-Pattern in Sensor Networks
Kay Rømer (ETHZ, Switzerland)
- Middleware and Simulation Support for WSN Motion Control Algorithm Design and Analysis
Norbert Luttenberger, Jochen Koberstein (University of Kiel, Germany)

Discussion

3:45 pm – 4:00 pm Break

4:00 pm – 5:30 pm SESSION 5

- SensorBase.org - a Centralized Repository to Store Sensor Network Data
Kevin Chang, Nathan Yau, Mark Hansen, Deborah Estrin (University of California at Los Angeles, USA)
- Pervasive Grids: Integrating Sensor Networks into the Fixed Grid
Geoff Coulson (Lancaster University, England)

Discussion

Future Steps

DCOSS '06 WORKSHOP

MOBILITY AND SCALABILITY IN WIRELESS SENSOR NETWORKS (MSWSN)

SUNDAY, JUNE 18, 2006

8:00 am - 8:45 am **Continental Breakfast**
8:45 am – 9:00 am **Opening Remarks**
Christian Schindelhaer (*Chair*)

9:00 am - 11:00 am **SESSION 1: MOBILITY**

- Invited Talk: Keith J. O'Hara (Georgia Institute of Technology, USA)
Mobility and Pervasiveness in Physical Computing Systems
joint work with Tucker Balch (Georgia Institute of Technology, USA)
- Mobility Management in Sensor Networks
*Muneeb Ali (Lahore University of Management Sciences, Pakistan),
Thiemo Voigt (Swedish Institute of Computer Science, Kista, Sweden),
Zartash Afzal Uzmi (Lahore University of Management Sciences, Pakistan)*
- Autonomous Mobile Networks Overlaid on Public Transportation Networks
G. Sampath (Rochester Institute of Technology, USA), J. TenEyck (Marist College, Poughkeepsie, USA)

11:00 am – 11:15 am **Break**

11:15 am – 12:30 pm **SESSION 2: SCALABILITY**

- Invited Talk: Sándor Fekete (Braunschweig University of Technology, Germany)
Algorithmic Aspects of Large Sensor Networks
*joint work with Alexander Krüller (Braunschweig University of Technology, Germany),
Dennis Pfisterer, Stefan Fischer (University of Lübeck, Germany)*
- Intelligent Hierarchical Cluster-Based Routing
Abdul W. Matin, Sajid Hussain (Jodrey School of Computer Science, Wolfville, Canada)

12:30 pm – 2:00 pm **LUNCH (on your own)**

2:00 pm – 4:00 pm **SESSION 3: LIFETIME**

- Invited Talk: Sotiris Nikolettseas (Research Academic Computer Technology Institute, Patras, Greece)
Adaptive Power Saving for Heterogeneous Sensor Networks with Incremental Deployment
- Invited Talk: Jun Luo (School of Computer and Communication Sciences, Lausanne, Switzerland)
Mobility to Improve the Lifetime of Wireless Sensor Networks: A Theoretical Framework
*joint work with Jean-Pierre Hubaux (School of Computer and Communication Sciences,
Lausanne, Switzerland)*

4:00 pm – 4:15 pm **Break**

4:15 pm - 5:30 pm **PANEL DISCUSSION**