

Resource Provisioning and Management in Sensor Networks (RPMSN05)

Nov. 7, 2005

8:45 AM - 9:00 AM

Welcome

9:00 AM - 10:30 AM

Session 1: Security and Network Management

Session Chair: Eylem Ekici, The Ohio State University

1. Secure Localization in Sensor Networks using Transmission Range Variation, Farooq Anjum, Santosh Pandey, and Prathima Agrawal
2. Security and Trust Assurances for Smart Environments
Syed Naqvi and Michel Riguidel
3. Mobile Network Management and Robust Spatial Retreats via Network Dynamics
Ke Ma, Yanyong Zhang, and Wade Trappe
4. A Practical Approach to Deploy Large Scale Wireless Sensor Networks
Mike Sheldon, Deji Chen, Mark Nixon, and Aloysius K. Mok

10:30 AM - 11:00 AM Break

11:00 AM - 12:30 PM

Session 2: Routing and QoS Control

Session Chair: Hyunyoung Lee, Denver Univeristy

5. Efficient Routing Protocols for a Free Space Optical Sensor Network
Unoma Ndili Okorafor and Deepa Kundur
6. Reliable Energy Efficient Routing in Wireless Sensor Networks
Eunjae Jung and D. M.H. Walker
7. Network-Aware Positioning in Sensor Network
Ahmed A. Ahmed, Hongchi Shi, and Yi Shang

8. A Predictive QoS Control Strategy for Wireless Sensor Networks
Biyu Liang, Jeff Frolik, and X. Sean Wang

12:30PM - 2:00PM Lunch

2:00PM - 3:30PM

Session 3: Data Storage and Task Scheduling

Session Chair: Li Xiao, Michigan State University

9. Distributed Data Aggregation in Sensor Networks by Regression Based Compression
Torsha Banerjee, Kaushik Chowdhury, and Dharma P. Agrawal
10. Energy Efficient Data Management for Wireless Sensor Networks with Data Sink Failure
Hyunyoung Lee, Andreas Klappenecker, Kyungsook Lee, and Lan Lin
11. Energy-Constrained Task Mapping and Scheduling in Wireless Sensor Networks
Yuan Tian, Eylem Ekici, and Fusun Ozguner
12. Nearly Optimal Distributed Configuration Management Using Probabilistic Graphical Model
Sungeok Jeon and Chuanyi Ji

3:30 - 4:00PM break

4:00PM - 5:30PM

Panel: Mobility Provisioning and Management in Sensor Networks

Panel Chair: Dr. Jie Wu, Florida Atlantic University

Panelists: Dr. Tarek Abdelzaher, University of Illinois, Urbana-Champaign
Dr. Tom La Porta, The Pennsylvania State University
Dr. Ness Shroff, Purdue University
Dr. Ivan Stojmenovic University of Ottawa, Canada