Advances in Sensor Networks (IWASN 2006)
July 17, 2006 - San Jose, California, USA
http://www.iwasn.org

Technical Program

8:30 – 8:35  Opening and Welcome:
Workshop Chairs

8:35 – 9:30  Keynote Speech:
Low Power Design Paradigm in Wireless Systems
Dr. Ahmad Bahai
CTO of National Semiconductor, USA

9:30 – 9:45  Coffee Break

Session 1:  MAC, Networking Layer and Energy-efficient Design

Siddhartha K. Goel, Tamer ElBat† and Mani Srivastava†
† HRL Laboratories, LLC, Malibu, USA
† University of California, Los Angeles, USA

10:15 – 10:45  Efficient Scheduling for Sensor Networks
Andreea Berfield and Daniel Mossè
University of Pittsburgh, USA

10:45 – 11:15  A Cluster-Based Coverage-Preserved Node Scheduling Scheme in Wireless Sensor Networks
Shiow-Fen Hwang, Yi-Yu Su, Yi-Yo Lin and Chi-Ren Dow
Feng-Chia University, Taichung, Taiwan, ROC

11:15 – 11:45  Bottleneck around Base Station in Wireless Sensor Network and its Solution
Kumar Padmanabh and Rajarshi Roy
Indian Institute of Technology, Kharagpur, India

11:45 – 13:00  Lunch

Session 2:  Application-oriented Sensor Networks

13:00 – 13:30  Distributed Reputation System for Tracking Applications in Sensor Networks
Tanya Roosta, Marci Meingast and Shankar Sastry
University of California, Berkeley, USA

13:30 – 14:00  Learning Sensor Data Characteristics in Unknown Environments
Tatiana Bokareva†, Nirupama Bulusu†, and Sanjay Jha†
† The University of NSW, Australia
† Portland State University, USA

14:00 – 14:30  Rate Control to Reduce Bioeffects in Wireless Biomedical Sensor Networks
Hongliang Ren and Max Q.-H. Meng
The Chinese University of Hong Kong, Hong Kong, China
14:30 – 15:00  **Optimal Actuation Strategies for Sensor/Actuator Networks**  
F. Thouin, R. Thommes and M.J. Coates  
McGill University, Canada

15:00 – 15:30  **Tea Break**

**Session 3:**  Experimental and Practical Sensor Networks

15:30 – 16:00  **Metric-Based Scatternet Formation and Recovery Optimization for Intel Mote**  
Xin Zhang*, Lama Nachman†, George F. Riley* and Ralph Kling†  
* Georgia Institute of Technology, Atlanta, USA  
† Intel Research, Santa Clara, USA

16:00 – 16:30  **TinySIP: Providing Seamless Access to Sensor-based Services**  
Sudha Krishnamurthy  
Deutsche Telekom Laboratories, Berlin, Germany

16:30 – 17:00  **A Discrete Distributed Topology-control Algorithm of Wireless Sensor Network**  
Xuyong Huang and Pei Liu, HuaZhong  
University of Science and Technology, China

17:00  **Workshop Closes**