

Advances in Sensor Networks (IWASN 2006)

July 17, 2006 - San Jose, California, USA

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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**
- 9:45 – 10:15 **Towards Balancing Medium Access Energy Trade-offs in Wireless Sensor Networks**
Siddhartha K. Goel[†], Tamer ElBatt^{} 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 Mossé
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**