Aug 6th, 2007 - Philadelphia, PA, USA
http://www.iwasn.org
Venue: Cherry room, The Radisson Plaza-Warwick Hotel Philadelphia

Technical Program

08:30 – 08:35 Opening and Welcome

08:35 – 10:00 Keynote Speech: “Distributed Estimation Using Wireless Sensor Networks”
Professor Georgios B. Giannakis
IEEE Signal Processing Society Distinguished Lecturer
University of Minnesota, USA

10:00 – 10:30 Coffee Break

Session 1: Localization, Topology Control & Coverage
Session Chair: TBA

10:30 – 10:50 Smart Tracker: Light Weight Infrastructure-less Assets Tracking solution for Ubiquitous Computing Environment
Nilothpal Talukder*, Sheikh I Ahamed* and Rezaul M Abid†
* Marquette University, USA
† Schneider National, Inc., USA

10:50 – 11:10 Asynchronous Self-Localization of Sensor Networks with Large Clock Drift
Chunpeng Yan and H. Howard Fan
University of Cincinnati, USA

11:10 – 11:30 Optimal Relay Node Fault Recovery
Fei Che, Liang Zhao, and Errol L.Lloyd
University of Delaware, USA

11:30 – 11:50 A Distributed Topology Control Algorithm in the Presence of Multipath Propagation
Harish Sethu and Thomas Gerety
Drexel University, USA

11:50 – 12:10 Diffusion-based Approach to Deploying Wireless Sensors to Satisfy Coverage, Connectivity and Reliability
Renita Machado, Sirin Tekinay
New Jersey Institute of Technology, USA

Last updated: 01/08/07
12:10 – 13:40  Lunch (at Warwick room)

Session 2:  Security & Synchronization
Session Chair: TBA

13:40 – 14:00  Secure Multiple Deployment in Wireless Sensor Networks
Guorui Li, Jingsha He and Yingfang Fu
Beijing University of Technology, China

14:00 – 14:20  Secure Data Transmission of Wireless Sensor Network Based on Information Hiding
Xiangrong Xiao, Xingming Sun, Lincong Yang, Minggang Chen
Hunan University, China

14:20 – 14:40  Time Division Flooding Synchronization Protocol for Sensor Networks
Yi Zeng, Bo Hu and Hui Feng
Fudan University, China

14:40 – 15:00  An Alamouti Coded Cooperative Transmission Robust to Both Timing Errors and Frequency Offsets
Zheng Li and Xiang-Gen Xia
University of Delaware, USA

15:00 – 15:30  Tea Break

Session 3:  Power Management & Energy-efficient Design
Session Chair: TBA

15:30 – 15:50  Reliable Data Gathering in Tree-Based IEEE 802.15.4 Wireless Sensor Networks
Daniele Messina, Marco Ortolani, and Giuseppe Lo Re
University of Palermo, Italy

15:50 – 16:10  An Energy Efficiency Scheme Using Local SNR for Clustered Wireless Sensor Networks
Qianyu Ye*, Yu Liu*, Lin Zhang*, Chan-hyun Youn†
* Beijing University of Posts and Telecommunications, China
† Information and Communications University, Republic of Korea

16:10 – 16:30  An Efficient Bi-directional Routing Protocol for Wireless Sensor Networks
Inwhee Joe, Taewon Ahn
Hanyang University, Korea

16:30 – 16:45  Workshop Closes