

Technical Program
IEEE/NSF International Workshop on Theoretical and
Algorithmic Aspects of Sensor and Ad-hoc Networks
(WTASA'07)

Thursday June 28th, 2007	
	Registration Open
7:00AM - 8:30AM	Continental Breakfast
8:30AM - 8:45AM	Welcome Organizing Committee
8:45AM-9:45AM	Keynote Speaker Sensor Networks Enabling Things-to-Things Communications Dr. Lance Hester, Wireless Solutions Research, Motorola Labs, Motorola, Inc.
	Session 1: Scalability and Coverage in Wireless Sensor Network
	Chair: Senad Busovaca, California State University, Sacramento
10:15AM -10:45AM	Paper Title: Random Graph Models and the Limits of Scalability in Ad Hoc and Sensor Networks Authors: Andrew Farago
10:45AM – 11:15AM	Paper Title: Analysis of Effective Connectivity in Mobile Wireless Communications Authors: J. David Haughs and Dongsoo S. Kim
11:15 AM – 11:30AM	Coffee Break
	Session 2: Topology Control and Power-awareness Wireless Sensor Networks
11:30AM – 12:00AM	Paper Title: Static Channel Assignment For Multi-Radio Multi-Channel Multi-Hop Wireless Networks Authors: Xufei Mao, Xiang-Yang Li and S. Kami Makki
12:00AM – 12:30PM	Paper Title: Qos-Aware Integrated Cellular and WiFi Wireless Networks Authors: Ashraf Nusairat, Xiang-Yang Li and S. Kami Makki
	Paper Title: Distributed Energy Aware Topology Control Algorithm for Wireless Sensor Networks Authors: Zi Jian Wang, Jun Zhang, Xi Ling Luo
12:30PM – 2:00PM	Lunch Break
	Session 3: Routing & Multicasting in Ad-hoc and Sensor Network
	Chair: Shamila Makki
2:00PM – 2:30PM	Paper Title: MFACE: A Multicast Backbone Assisted Face Traversal Algorithm for Arbitrary Planar Ad Hoc and Sensor Network Topologies Authors: Hannes Frey and Francois Ingelrest
2:30PM – 3:00PM	Paper Title: SDRP: A Service-Driven Routing Protocol for Sensor-Actuator Networks Authors: Abdelmounaam Rezgui and Mohamed Eltoweissy
3:00PM – 3:15PM	Coffee Break

	Session 4: Mobility Management and Time Synchronization in Sensor Network
	Chair: Masoumeh Karimi
3:15PM – 3:45PM	Paper Title: Multi-Scale Anchor-free Distributed Positioning in Sensor Networks Authors: Bastian Katz and Dorothea Wagner
3:45PM – 4:15PM	Paper Title: History-Based Collision Resolution Of CSMA/CA Authors: SangShin Yoo and Dongsoo Kim
4:15PM – 4:30PM	Coffee Break
4:30PM – 5:15PM	Keynote Speaker Directorate for Computer and Information Science and Engineering (CISE) New Initiatives, Challenges and Opportunities Dr. E. K. Park, National Science Foundation & University of Missouri Kansas City
	Friday June 29th, 2007
7:00AM - 8:50AM	Continental Breakfast
	Session 5: Algorithms for Sensor Networks
	Chair: Wuxu Peng
8:50 AM -9:10AM	Paper Title: On the Time Synchronization of Multi-hop Ad-hoc Networks Authors: Xiwei Zhao, Vinayak Ganapathy, Niki. Pissinou and Kia. Makki
9:10AM – 9:30AM	Paper Title: Universal Modular Framework For Sensor Networks Authors: E DePoorter, B Latre, I Moerman and P Demeester
9:30AM -9:50AM	Paper Title: Applying Hierarchical Agglomerative Clustering to Wireless Sensor Networks Authors: Chung-Horng Lung, Chenjuan Zhou, Yuekang Yang
9:50AM – 10:10AM	Paper Title: Detectability In Incomplete Sensor Networks Authors: Wuxu Peng, Xingde Jia and Eric D. Reeves
10:10AM -10:25AM	Coffee Break
10:25AM – 12:25PM	Panel Discussion