

Table of Contents

Tables: A Spreadsheet-Inspired Programming Model for Sensor Networks	1
<i>James Horey, Eric Nelson, and Arthur B. Maccabe</i>	
Optimized Java Binary and Virtual Machine for Tiny Motes.....	15
<i>Faisal Aslam, Luminous Fennell, Christian Schindelhauer, Peter Thiemann, Gidon Ernst, Elmar Haussmann, Stefan Rührup, and Zastash Afzal Uzmi</i>	
ZeroCal: Automatic MAC Protocol Calibration	31
<i>Andreas Meier, Matthias Woehrle, Marco Zimmerling, and Lothar Thiele</i>	
Programming Sensor Networks Using REMORA Component Model	45
<i>Amirhosein Taherkordi, Frédéric Loiret, Azadeh Abdolrazaghi, Romain Rouvoy, Quan Le-Trung, and Frank Eliassen</i>	
Stateful Mobile Modules for Sensor Networks	63
<i>Moritz Strübe, Rüdiger Kapitza, Klaus Stengel, Michael Daum, and Falko Dressler</i>	
Design and Implementation of a Robust Sensor Data Fusion System for Unknown Signals	77
<i>Younghun Kim, Thomas Schmid, and Mani B. Srivastava</i>	
Control Theoretic Sensor Deployment Approach for Data Fusion Based Detection	92
<i>Ahmad Ababnah and Balasubramaniam Natarajan</i>	
Approximate Distributed Kalman Filtering for Cooperative Multi-agent Localization	102
<i>Prabir Barooah, Wm. Joshua Russell, and João P. Hespanha</i>	
Thermal-Aware Sensor Scheduling for Distributed Estimation	116
<i>Domenic Forte and Ankur Srivastava</i>	
Decentralized Subspace Tracking via Gossiping	130
<i>Lin Li, Xiao Li, Anna Scaglione, and Jonathan H. Manton</i>	
Building $(1 - \epsilon)$ Dominating Sets Partition as Backbones in Wireless Sensor Networks Using Distributed Graph Coloring	144
<i>Dhia Mahjoub and David W. Matula</i>	

On Multihop Broadcast over Adaptively Duty-Cycled Wireless Sensor Networks	158
<i>Shouwen Lai and Binoy Ravindran</i>	
A Novel Mobility Management Scheme for Target Tracking in Cluster-Based Sensor Networks	172
<i>Zhibo Wang, Wei Lou, Zhi Wang, Junchao Ma, and Honglong Chen</i>	
Suppressing Redundancy in Wireless Sensor Network Traffic	187
<i>Rey Abe and Shinichi Honiden</i>	
Ensuring Data Storage Security against Frequency-Based Attacks in Wireless Networks	201
<i>Hongbo Liu, Hui Wang, and Yingying Chen</i>	
Time-Critical Data Delivery in Wireless Sensor Networks	216
<i>Petcharat Suriyachai, James Brown, and Utz Roedig</i>	
MetroTrack: Predictive Tracking of Mobile Events Using Mobile Phones	230
<i>Gahng-Seop Ahn, Mirco Musolesi, Hong Lu, Reza Olfati-Saber, and Andrew T. Campbell</i>	
Mobile Sensor Network Localization in Harsh Environments	244
<i>Harsha Chenji and Radu Stoleru</i>	
AEGIS: A Lightweight Firewall for Wireless Sensor Networks	258
<i>Mohammad Sajjad Hossain and Vijay Raghunathan</i>	
Halo: Managing Node Rendezvous in Opportunistic Sensor Networks ...	273
<i>Shane B. Eisenman, Hong Lu, and Andrew T. Campbell</i>	
Optimal Data Gathering Paths and Energy Balance Mechanisms in Wireless Networks	288
<i>Aubin Jarry, Pierre Leone, Sotiris Nikolettseas, and Jose Rolim</i>	
Programming Sensor Networks with State-Centric Services	306
<i>Andreas Lachenmann, Ulrich Müller, Robert Sugar, Louis Latour, Matthias Neugebauer, and Alain Gefflaut</i>	
Fast Decentralized Averaging via Multi-scale Gossip	320
<i>Konstantinos I. Tsianos and Michael G. Rabbat</i>	
Wormholes No More? Localized Wormhole Detection and Prevention in Wireless Networks	334
<i>Tassos Dimitriou and Athanassios Giannetsos</i>	
Wireless Jamming Localization by Exploiting Nodes' Hearing Ranges ...	348
<i>Zhenhua Liu, Hongbo Liu, Wenyan Xu, and Yingying Chen</i>	

Self-stabilizing Synchronization in Mobile Sensor Networks with Covering	362
<i>Joffroy Beauquier and Janna Burman</i>	
Sensor Allocation in Diverse Environments	379
<i>Amotz Bar-Noy, Theodore Brown, and Simon Shamoun</i>	
Data Spider: A Resilient Mobile Basestation Protocol for Efficient Data Collection in Wireless Sensor Networks	393
<i>Onur Soysal and Murat Demirbas</i>	
Author Index	409