



Advance Programme - Full Papers Accepted

Paper 1569064873

Title Typhoon: A Reliable Data Dissemination Protocol for Wireless Sensor Networks

Authors with affiliations Chieh-Jan Mike Liang (Johns Hopkins University, US); Razvan Musaloiu-E. (Johns Hopkins University, US); Andreas Terzis (Johns Hopkins University, US)

Paper 1569064886

Title Clustering-Based Minimum Energy Wireless m-Connected k-Covered Sensor Networks

Authors with affiliations Habib M. Ammari (The University of Texas at Arlington, US); Sajal K. Das (The University of Texas at Arlington, US)

Paper 1569065578

Title Que: A Sensor Network Rapid Prototyping Tool With Application Experiences from a Data Center Deployment

Authors with affiliations David Chu (University of California, Berkeley, US); Feng Zhao (Microsoft Research, US); Jie Liu (Microsoft Research, US); Michel Goraczko (Microsoft Research, US)

Paper 1569065788

Title Efficient Clustering for Improving Network Performance in Wireless Sensor Networks

Authors with affiliations Tal Anker (Marvell Semiconductor, US); Danny Bickson (The Hebrew University of Jerusalem, IL); Danny Dolev (The Hebrew University of Jerusalem, IL); Bracha Hod (The Hebrew University of Jerusalem, IL)

Paper 1569066246

Title Speed, Reliability and Energy Efficiency of HashSlot Communication in WSN Based Localization Systems

Authors with affiliations Marcel Baunach (University of Wuerzburg, DE)

Paper 1569066272

Title Lifetime Maximization in Wireless Sensor Networks by Distributed Binary Search

Authors with affiliations Andre Schumacher (Helsinki University of Technology, FI); Pekka Orponen (Helsinki University of Technology TKK, FI); Thorn Thaler (Lab. for Theoretical Computer Science, FI); Harri Haanpää (Helsinki University of Technology, FI)

Paper 1569066370

Title Analysis of audio streaming capability of Zigbee networks

Authors with affiliations Davide Brunelli (University of Bologna, IT); Massimo Maggiorotti (Telecom Italia Lab, IT); Luca Benini (University of Bologna, IT); Fabio Luigi Bellifemine (Telecom Italia, IT)

Paper 1569066806

Title An algorithm for reconnecting Wireless Sensor Network partitions

Authors with affiliations Gianluca Dini (University of Pisa, IT); Marco Pelagatti (University of Pisa, IT); Ida Savino (University of Pisa, IT)

Paper 1569066868

Title Spatiotemporal Anomaly Detection in Gas Monitoring Sensor Networks

Authors with affiliations Rosalind Wang (CSIRO ICT Centre, AU); Joseph Lizier (University of Sydney, AU); Oliver Obst (CSIRO ICT Centre, AU); Mikhail Prokopenko (CSIRO ICT Centre, AU); Peter Wang (CSIRO ICT Centre, AU)

Paper 1569066957

Title Discovery of Frequent Distributed Event Patterns in Sensor Networks

Authors with affiliations Kay Roemer (Institute for Pervasive Computing, ETH Zurich, CH)

Paper 1569066980

Title Activity recognition from on-body sensors: accuracy-power trade-off by dynamic sensor selection

Authors with affiliations Piero Zappi (University of Bologna, IT); Clemens Lombriser (Wearable Computing Lab, ETH Zurich, CH); Thomas Stiefmeier (Wearable Computing Lab, ETH Zurich, CH); Elisabetta Farella (DEIS - University of Bologna, IT); Daniel Roggen (ETH Zurich, Switzerland, CH); Luca Benini (University of Bologna, IT); Gerhard Tröster (Wearable Computing Lab ETH Zürich, CH)

Paper 1569066995

Title Device Driver Abstraction for Multithreaded Sensor Network Operating Systems

Authors with affiliations Haksoo Choi (Yonsei University, KR); Chanmin Yoon (Yonsei University, KR); Hojung Cha (Yonsei University, KR)

Paper 1569067012

Title A Component Framework for Content-based Publish/Subscribe in Sensor Networks

Authors with affiliations Jan-Hinrich Hauer (Technische Universitaet Berlin, DE); Vlado Handziski (Technische Universitaet Berlin, DE); Andreas Köpke (Technical University Berlin, DE); Andreas Willig (Technical University of Berlin, DE); Adam Wolisz (Technical University of Berlin, DE)

Paper 1569067072

Title Efficient Resource Estimation during Mass Casualty Emergency Response Based on a Location Aware Disaster Aid Network

Authors with affiliations Ashok Kumar Chandra Sekaran (University of Karlsruhe, DE); Gerd Flaig (University of Karlsruhe, DE); Christophe Kunze (FZI Forschungszentrum Informatik, DE); Wilhelm Stork (University of Karlsruhe, DE); Klaus D.Mueller Glaser (University of Karlsruhe, DE)

Paper 1569067113

Title Radio Characterization of 802.15.4 and its Impact on the Design of Mobile Sensor Networks

Authors with affiliations Emiliano Miluzzo (Dartmouth College, US); Xiao Zheng (Dartmouth College, US); Kristóf Fodor (Dartmouth College, US); Andrew T.Campbell (Dartmouth College, US)

Paper 1569067151

Title Tracking Dynamic Boundary Fronts using Range Sensors

Authors with affiliations Subhasri Duttagupta (Indian Institute of Technology, Bombay, IN); Krithi Ramamritham (Indian Institute of Technology, Bombay, IN); Purushottam Kulkarni (Indian Institute of Technology, Bombay, IN); Kannan M.Moudgalya (Indian Institute of Technology, Bombay, IN)

Paper 1569067170

Title Network-Coding-based Cooperative Transmission in Wireless Sensor Networks: Diversity-Multiplexing tradeoff and Coverage Area Extension

Authors with affiliations Dereje H. Woldegebreal (University of Paderborn, DE); Holger Karl (University of Paderborn, DE)

Paper 1569067183

Title NanoECC: Testing the Limits of Elliptic Curve Cryptography in Sensor Networks

Authors with affiliations Piotr Szczechowiak (Dublin City University, IE); Leonardo Oliveira (UNICAMP, BR); Michael Scott (Dublin City University, IE); Martin Collier (Dublin City University, IE); Ricardo Dahab (UNICAMP, BR)

Paper 1569067184

Title Characterizing Mote Performance: A Vector-Based Methodology

Authors with affiliations Martin Leopold (University of Copenhagen, DK); Marcus Chang (University of Copenhagen, DK); Philippe Bonnet (University of Copenhagen, DK)

Paper 1569067210

Title FiGaRo: Fine-Grained Software Reconfiguration for Wireless Sensor Networks

Authors with affiliations Luca Mottola (Politecnico di Milano, IT); Gian Pietro Picco (University of Trento, IT); Adil Amjad Sheikh (University of Trento, IT)

Paper 1569067222

Title Resilient Coding Algorithms for Sensor Network Data Persistence

Authors with affiliations Daniele Munaretto (DoCoMo Euro-Labs, Munich, DE); Joerg Widmer (DoCoMo Euro-Labs, DE); Michele Rossi (University of Padova, IT); Michele Zorzi (University of Padova, IT)

Paper 1569067228

Title Predictive Modeling-based Data Collection in Wireless Sensor Networks

Authors with affiliations Lidan Wang (University of Maryland - College Park, US); Amol Deshpande (University of Maryland, US)

Paper 1569067232

Title Distributed inference for network localization using radio interferometric ranging

Authors with affiliations Dennis Lucarelli (Johns Hopkins University - Laurel, MD); Anshu Saksena (Johns Hopkins University - Laurel, MD); Ryan Farrell (Johns Hopkins University - Laurel, MD and University of Maryland, College Park, MD); I-Jeng Wang (Johns Hopkins University - Laurel, MD)