1ˢᵗ European Workshop on Wireless Sensor Networks (EWSN) Berlin, 19.-21. January 2004

Call for Work-in-Progress Papers

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Scope

Wireless sensor networks (WSN) - networks of tiny, autonomous devices equipped with wireless communication - are a topic of active research in a number of different research communities, ranging from hardware to applications. WSNs are characterized by a need to carefully integrate functionalities traditionally considered to be separate in order to achieve maximum efficiency, especially with regard to energy consumption and management. Hence, a close interaction of research from different backgrounds is required. Additionally, WSNs are evolving from simple data transportation networks to functionally rich distributed systems, e.g., because actuators in the network have to be supported.

The goal of this workshop is to bring together researchers from different backgrounds, from hardware to applications, to create a forum where cross-layer integration, novel solutions for specific problems, and the future development of WSN functionalities can be discussed.

Short Papers

To this purpose, we solicit short papers on work in progress in all areas of wireless sensor networks. The goals are to allow timely presentation and publication of new ideas, emerging real solutions as well as applications. Short papers do not need to describe completed work, but the work should be advanced beyond the initial stages.

Why should you submit a short paper?

This is a great chance for disseminating early results of your research to a wide and competent audience. This will help to create awareness around your ideas, will give you relevant feedbacks and open some discussions on your research direction.

Submission of Work-in-Progress Papers

Exclusively electronic submissions using EDAS will be accepted. A short paper (maximum 4 pages, IEEE double column layout) must clearly describe the subject of your research, the innovative ideas behind it, the results already achieved, and your further work. Proposal submissions will be reviewed for novelty and timeliness, relevance, technical correctness and accuracy.

Authors of accepted proposal will be requested to present the paper during the workshop. The short papers will be published as a technical report which will be made available as hard copy during the workshop, as well as in electronic form in WWW.

Details on the submission process can be found at http://www.ewsn.org.

Important Dates:
Work-in-progress submission: 15ᵗʰ of November, 2003
Information about acceptance: 10ᵗʰ of December, 2003
Camera-ready version: 5ᵗʰ of January, 2004
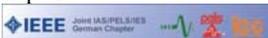
For more information, please visit: http://www.ewsn.org

List of already accepted full papers (in alphabetical order)

A Novel Mechanism for Routing in Highly Mobile Ad Hoc Networks
J. Tateson and I. Marshall (Britisch Telecom)

A Real-world, Simple Wireless Sensor Network
C. Kappler (Siemens AG) and G. Riegel (dezem GmbH, Germany)

ACE: An Emergent Algorithm for Highly Uniform Cluster Formation
H. Chan and A. Perrig (Carnegie Mellon U.)

Analysis of Node Energy Consumption in Sensor Networks
K. Schwieger (Dresden U. of Technology)

Building Blocks of Energy and Cost Efficient Wireless Sensor Networks
A. Filipovic and A. Datta (U. of Western Australia)

Context-Aware Sensors
K. Elnahrawy and B. R. Badrinath (Rutgers U.)

Design of Surveillance Sensor Grids with a Lifetime Constraint
V. Mhatre(for Purdue U), C. Rosenberg*, D. Kofman (ENST Teleco), R. Mazumda* and N. Shroff**

Design of a Secure Distributed Service Directory for Wireless Sensornetworks
H.-J. Hof, E.-O. Blass, T. Fuhrmann and M. Zitterbart (U. Karlsruhe)

Improving the Energy Efficiency of Directed Diffusion Using Passive Clustering
V. Handziski, A. Köpke, H. Karl, C. Frank and W. Drytkiewicz (Technical University Berlin)

Lessons from a Sensor Network Expedition
R. Szewczyk (denotes UC Berkeley), J. Polastre*, A. Mainwaring (Intel Research) and D. Culler**

Low-Cost Wireless Sensors in UPnP Environments
Y. Gsottberger, X. Shi, G. Stromberg, T. Sturm and W. Weber (Infineon Technologies AG

Matrix Pencil for Positioning in Wireless Ad-hoc Sensor Network
L. Song, R. Adve, and D. Hatzinakos (U. of Toronto)

Max-Min Length-Energy-Constrained Routing in Wireless Sensor Networks
R. Kannan, L. Ra, R. Kalidindi and S. Iyengar (Louisiana State U.)

Networked Slepian-Wolf: Theory and Algorithms
R. Cristescu, B. Beferull-Lozano and M. Vetterli (EPFL, Switzerland)

Power Sources for Wireless Sensor Networks
S. Roundy, D. Steingart, L. Frechette, P. Wright and J.Rabaey (U. of California, Berkeley)

Prototyping Wireless Sensor Network Applications with BTnodes
J. Beutel, O. Kasten, F. Mattern, K.Römer (ETH Zürich), and F. Siegemund (ETH Zürich)

Reliable Set-up of Medical Body-Sensor Networks
H. Baldus, K. Klabunde and G. Muesch (Phlips Research Labs)

Silence is Golden with High Probability: Maintaining a Connected Backbone in Wireless Sensor Networks
P. Santi (CNR, Italy) and J. Simon (U. of Chicago)

Structured Communication in Single Hop Sensor Networks
A. Bakshi and V. Prasanna (U. of Southern California)

The XCast Approach for Content-based Flooding Control in Distributed Virtual Shared Information Spaces Design and Evaluation
J. Koberstein, F. Reuter and N. Luttenberger (Christian-Albrechts-University Kiel, Germany)

Time Synchronized Neighbor Nodes Based Redundant Robust Routing (TSN2R3) for Mobile Sensor Networks
W. Noh and S. An (Korea University)

Topology-transparent support for sensor networks
R. Simon and E. Farrugia (George Mason U.)

Tracking Real-World Phenomena with Smart Dust
K. Römer (ETH Zürich)

Wireless Battery Cell Sensor Networks Sensor Networks
K.-R. Riemschneider (Philips Semiconductors, Germany)

WSDP: Efficient, yet reliable, transmission of real-time sensor data over wireless networks
A. Honarbacht and A. Kummert (U. of Wuppertal Germany)