

Friday, November 4

Shared Flash File System for Micro  
El Neufeld (University of Colorado)

Illinois at Urbana-Champaign.  
Architecture, and Abstractions in

Illinois University

Adoption of Large-Scale Sensor

Postead (Harvard University), Bor-  
len, Matt Welsh (Harvard)

Simulation, and Deployment of  
Networks

Ioannopoulos, Nithya Ramanathan, Eric  
Hammer, Deborah Estrin  
(Los Angeles)

Friday, November 5

8:30 – 9:00

Continental Breakfast

9:00 – 10:00

James F. Kurose, University of Massachusetts.  
"Collaborative Adaptive Sensing of the Atmosphere"

10:00 – 10:30

Break

10:30 – 11:30

Systems II

Chair: Tarek Abdelzaher, University of Virginia

An Analysis of a Large Scale Habitat Monitoring  
Application

Robert Szewczyk (University of California at  
Berkeley), Alan Mainwaring (Intel Research  
Berkeley), Joseph Polastre (College of the Atlantic),  
David Culler (University of California at Berkeley)

Hardware Design Experiences in ZebraNet

Christopher Sadler, Pei Zhang, Margaret Martonosi,  
Stephen Lyon (Princeton University)

11:30 – 12:30

Aggregation

Chair: Sam Madden, Massachusetts Institute of  
Technology

Medians and Beyond: New Aggregation Techniques  
for Sensor Networks

Nisheeth Shrivastava, Chiranjeeb Buragohain,  
Subhash Suri, Divyakant Agrawal (University of  
California at Santa Barbara)

Synopsis Diffusion for Robust Aggregation in Sensor  
Networks

Suman Nath (Intel Research Pittsburgh and Carnegie  
Mellon University), Phillip Gibbons (Intel Research  
Pittsburgh), Zachary Anderson, Srinivasan Seshan  
(Carnegie Mellon University)



Program  
for the

Second ACM  
Conference on  
Embedded Networked  
Systems

SenSys

Baltimore, Maryland  
November 3-5



All technical sessions and the poster sessions will be held in  
the Chesapeake Ballrooms. Demos will be held in the  
hallway outside the Chesapeake Ballrooms.

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ntersniper System  
*Miklos Maroti (Vanderbilt*

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for Structural Monitoring  
*ern California, Center for  
, Sumit Rangwala, Krishna  
outhern California), Deepak  
ornia at Los Angeles), Alan Broad  
, Ramesh Govindan (University  
orah Estrin (University of*

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*Southern California), Mohammad  
University of California at Los  
(University of Southern  
University of California at Los*

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University

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on Construction Kit (SNACK)  
*Kohler, Deborah Estrin  
os Angeles)*

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Data Dissemination Protocol for  
ale *Jonathan Hui, David Culler  
erkeley)*

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Wednesday, November 3

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12:00 – 13:30

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Lunch

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13:30 – 15:00

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Localization and Timesynch

Chair: Koen Langendoen, Technische Universiteit, Delft

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The Flooding Time Synchronization Protocol  
*Miklos Maroti, Branislav Kusy, Gyula Simon, Akos  
Ledeczki (Vanderbilt University)*

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Robust distributed network localization with noisy  
range measurements  
*David Moore, John Leonard, Daniela Rus, Seth Teller  
(Massachusetts Institute of Technology)*

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Decentralized synchronization protocols with nearest  
neighbor communication  
*Dennis Lucarelli, I-Jeng Wang (Johns Hopkins  
University)*

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15:00 – 15:30

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Coffee Break

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15:30 – 17:30

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Posters and Demos

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19:00 – 21:00

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Reception at the Baltimore Aquarium

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Thursday, Nov

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8:30 – 9:00

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Continental Breakfast

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9:00 – 10:30

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Routing and MAC

Chair: Chenyang Lu, Washington

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Versatile Low Power Media Access  
Networks  
*Joseph Polastre (University of Cal  
(JLH Labs), David Culler (Univers*

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Energy-Efficient Forwarding Strate  
Routing in Lossy Wireless Sensor  
*Karim Seada, Marco Zuniga, Ahm  
Krishnamachari (University of Sou*

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Combs, Needles, Haystacks: Bal  
Discovery in Large-Scale Sensor N  
*Xin Liu (University of California, D  
Zhang (Palo Alto Research Cente*

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10:30 – 11:00

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Morning Break

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11:00 – 12:00

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Congestion

Chair: Bhaskar Krishnamachari, U  
California

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Techniques for Mitigating Congest  
*Bret Hull, Kyle Jamieson, Hari Bal  
Institute of Technology)*

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Congestion Control and Fairness  
Sensor Networks  
*Cheng Tien Ee, Ruzena Bajcsy (U  
Berkeley)*

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12:00 – 13:00

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Lunch

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13:00 – 14:00

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Services

Chair: Eddie Kohler, University of

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TinySec: A Link Layer Security Ar  
Sensor Networks  
*Chris Karlof, Naveen Sast  
(University of California)*