



**26-29 September 2005
Santa Clara, California USA**

GETTING STARTED

WELCOME

**CONFERENCE
INFORMATION**

SESSIONS

AUTHORS

SEARCH



Getting Started

**2005 Second Annual IEEE Communications Society Conference
on Sensor and AdHoc Communications and Networks**

- ☐ Orientation
- ☐ Recommendations
- ☐ Bookmarks
- ☐ Selecting Text and Graphics
- ☐ Navigation Buttons
- ☐ Toolbar
- ☐ Find and Search
- ☐ Note to Mac Users



Main Menu



Getting Started



ORIENTATION


This Electronic Guide file contains hypertext links to individual article files. Links are represented by colored text (e.g., a name or title); clicking on the text activates the link.

Before you start browsing and using the information on this CD-ROM, you will need to install Adobe Acrobat Reader + Search 5.0. If you already have Acrobat Reader installed on your system, make sure it includes the Search plug-in.

To install, click on [“README.TXT”](#) which contains additional information.

In many instances, we refer to the “menu bar” and “tool bar”, shown here for reference.

menu bar: The image shows the menu bar of Adobe Acrobat Reader. It includes the following items: File, Edit, Document, View, Window, and Help. Each item is preceded by a small icon representing its function.

tool bar: The image shows the tool bar of Adobe Acrobat Reader. It contains various icons for file operations (like Open, Save, Print), navigation (like Previous, Next, First, Last), and viewing (like Zoom In, Zoom Out, Fit Width, Fit Height). Below the icons is a status bar showing the current zoom level as 100%.

Be sure to read the following on how to achieve the best performance with this electronic guide.

Main Menu




Getting Started



RECOMMENDATIONS FOR OPTIMAL PERFORMANCE

In order to take full advantage of the performance capabilities of this collection, we recommend that you do the following:

1. To make navigation and searching easier, we strongly recommend changing the following Acrobat Search Preferences (found under Edit > Preferences > Search on the menu bar.) In the dialog box shown for Acrobat Search Preferences, make the following changes:
 - A. Select the “Document Information” option so that Title, Author, Keywords, and Subject fields are visible when specifying search criteria. If for some reason this preference option is not present on your system, check to see that you have the Search plug-in installed. The Search icon  will be present on the Acrobat tool bar if the function is properly installed. Specifics of the Search function are described later in this section.
 - B. Change “Show first 100 documents” to “Show first 1000 documents”. (Type in “1000” in the field provided.) This allows the maximum number of hits to be displayed during a search.

These settings will become your new default.

Main Menu



Getting Started

USING BOOKMARKS

In addition to links, you can navigate through the Electronic Guide using Bookmarks. If they are not already visible, choose Window > Bookmarks from the menu bar or press the “Show/Hide Navigation Pane” button on the tool bar. A panel opens on the left side of the screen displaying Bookmarks in a hierarchy.

Each Bookmark corresponds to a location in the Electronic Guide. Click on the text in a Bookmark to go to that location.

Entries with lower level Bookmarks show a plus sign (+) when subordinate Bookmarks are hidden and a negative sign (-) when subordinate Bookmarks are visible. To view subordinate Bookmarks, click on the plus sign (+). To hide them, click on the negative sign (-). Dragging the right margin of the bookmark panel resizes it. Dragging the Bookmark tab moves the panel to a different location.



Main Menu

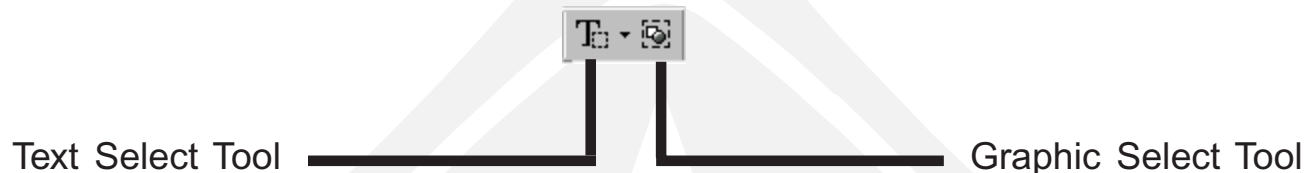


Getting Started

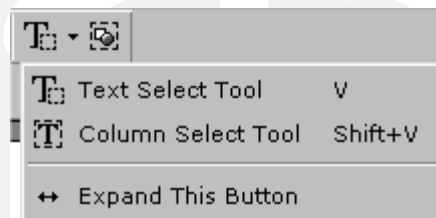


SELECTING TEXT AND GRAPHICS

To select text or graphics, the appropriate select tool must be selected. The select tools share the same space on the tool bar.



To see more text selection tools you must click the arrow to the right of the Text Select Tool. A “flyout” menu will allow you to select the Column Select Tool.



See the Adobe Acrobat Reader 5.0 Guide (Help > Reader Help) for more information on these tools.

Main Menu



Getting Started



NAVIGATION BUTTONS

Section Map

The current section is shown at the top of each page. The “path” to this section is shown at the right. Clicking these text buttons moves you to the start of that section.

Next Page

Click to advance to the next page in the section.



Previous Page

Click to go back to the previous page in the section.



(The Page Up and Page Down keys perform the same functions as the Next and Previous Page buttons.)

Fast Forward Pages

Click to advance (jump) multiple pages in the section.



Fast Back Pages

Click to go back (jump) multiple pages in the section.



Main Menu



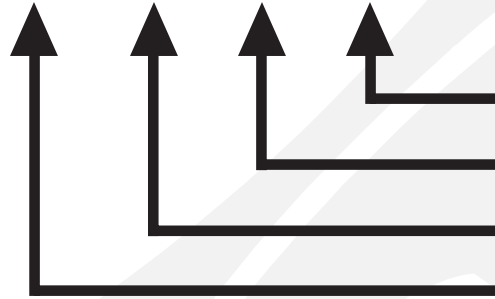
Getting Started



ACROBAT TOOLBAR



Navigation



Go to Last Page
Go Forward One Page
Go Backward One Page
Go to First Page

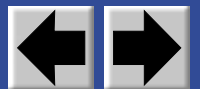


History



Go to Next View (One Link)
Go to Previous View (One Link)

Main Menu



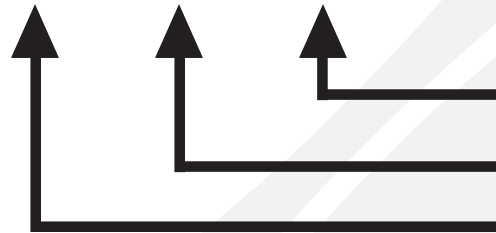
Getting Started



ACROBAT TOOLBAR



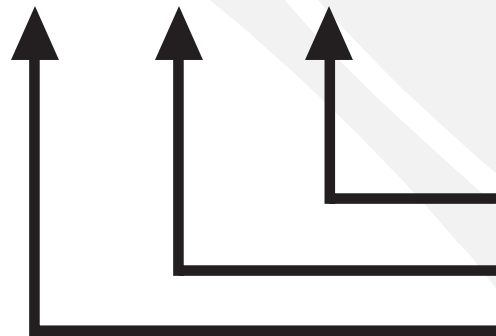
Zoom



Zoom Out
Zoom In
Hand Tool



Selection



Graphic Select Tool
Column Select Tool
Text Select Tool

Main Menu



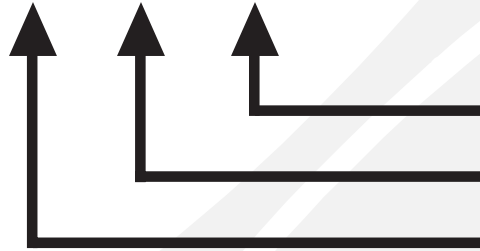
Getting Started



ACROBAT TOOLBAR



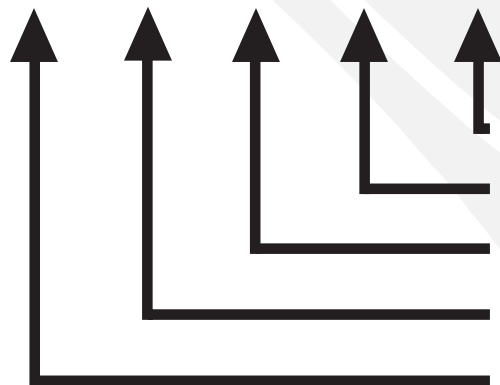
Page View



Fit Width
Fit in Window
Actual Size



Find/Search



Next Highlight (Hit)
Previous Highlight (Hit)
View Search Results
Search
Find

Main Menu



Getting Started



PERFORMING A “FIND”

Choosing Find opens a dialog box. Find scans linearly through the currently open Acrobat file from the cursor forward. If the Electronic Guide PDF is open, Find will scan the entire Electronic Guide for a match to your text. Type a text string in the field provided, check the appropriate options and press the “Find” button. Reader then highlights the first instance of the text string. To look at the next “hit”, click on the Find icon and press the “Find Again” button in the Acrobat Find window.

PERFORMING A “SEARCH”

Choosing the “Search” tool bar button or Search menu item (Edit > Search > Query), opens a dialog box from which you can access the more powerful full-text search engine (if you installed Acrobat Reader from this CD-ROM). Its dialog box is shown on the next page.

Typing a term in the text box at the top of the Search dialog box and pressing the “Search” button causes a full-text search of all words in the body of papers in the collection. If you have “Document

[Main Menu](#)



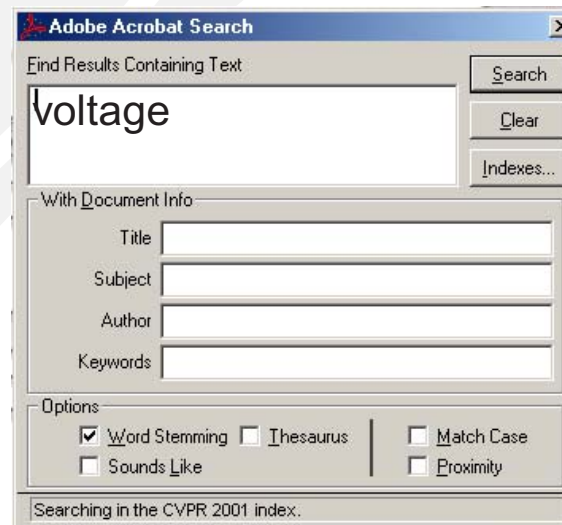
Getting Started

Information” active in your Reader preferences, entering a term in one or more of the fixed fields (Title, Author, Subject or Keywords) will cause a search for hits in only those fields.

If you are not finding files you think should show in the results list, Acrobat may not be attached to the correct index file. To check, press the “Indexes...” button for a list of available indexes. If this collection is not listed, press the “Add...” button and look in the root directory of the CD-ROM for a file called “index.pdx”. Click on that file to add it to the list.

NOTE to MAC users: The version 5.0 INDEX.PDX file is not compatible with MAC OS X (with either Reader 5.0 or 6.0). A version 6.0 index.pdx file is included on this CD-ROM and should be used for full text searching.

See the Reader Help (on Help menu) for more complete instructions on selecting appropriate options, constructing boolean queries, etc.



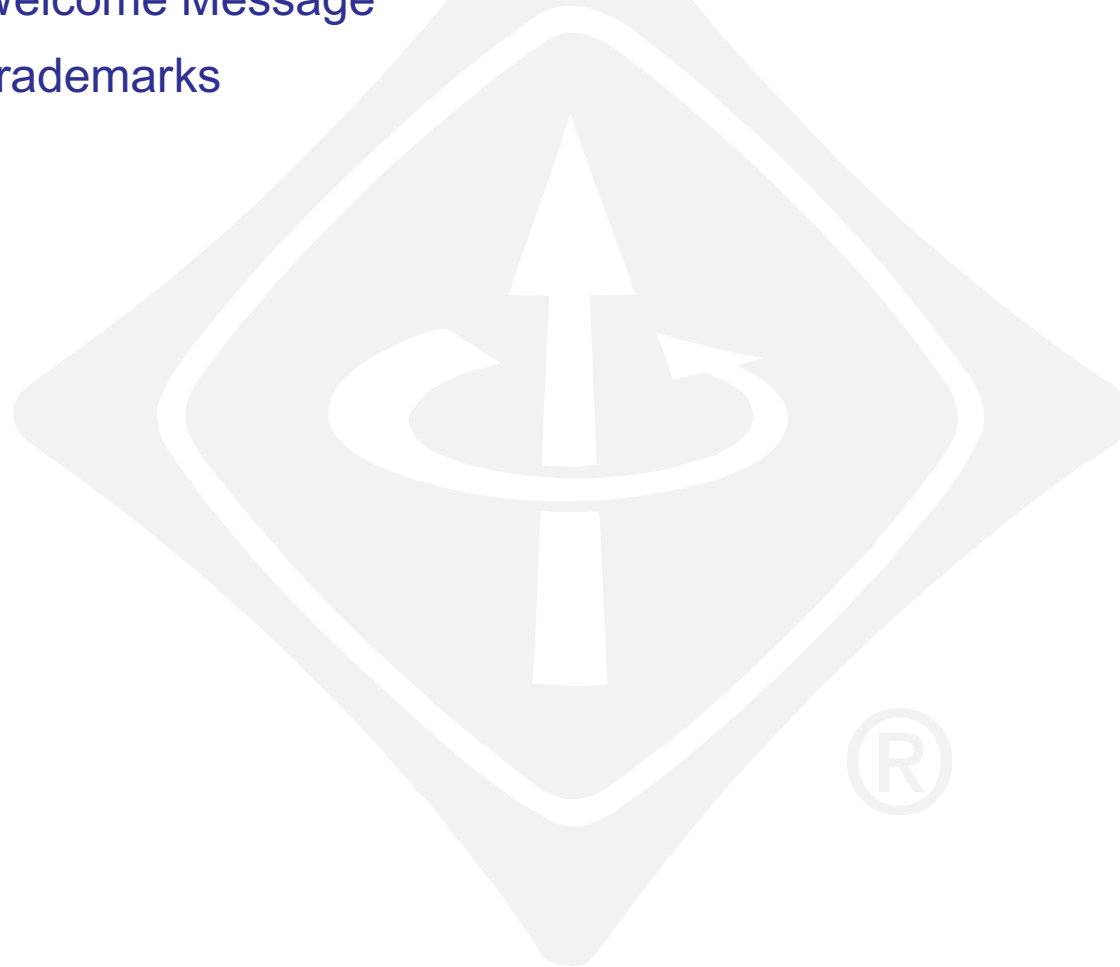
Main Menu



Welcome

2005 Second Annual IEEE Communications Society Conference on Sensor and AdHoc Communications and Networks

- ☐ [Welcome Message](#)
- ☐ [Trademarks](#)



[Main Menu](#)



Welcome

Welcome to the 2005 Second Annual IEEE Communications Society Conference on Sensor and AdHoc Communications and Networks on CD-ROM. This disc is designed so that you may locate papers by session or author, as well as with full text search.

The papers were converted to Adobe Acrobat PDF file format for cross-platform access. The viewing quality will vary with the size and quality of fonts used. Even though the viewing quality on your monitor may vary, all papers print clearly.

Be sure to read the “Getting Started” section for useful recommendations on how to use this electronic guide.

Thank you and Enjoy!



[Main Menu](#)



Welcome

Trademarks

Adobe, the Adobe logo, Acrobat and the Acrobat logo are trademarks of Adobe Systems Incorporated or its subsidiaries and may be registered in certain jurisdictions. Macintosh is a registered trademark of Apple Computer, Inc. HP is a registered trademark and HP-UX is a trademark of Hewlett-Packard Company. Motif is a trademark of Open Software Foundation, Inc. Solaris is a registered trademark of Sun Microsystems, Inc., Sun and OpenWindows are trademarks of Sun Microsystems, Inc. SPARC is a registered trademark of SPARC International, Inc. SPARCstation is a registered trademark of SPARC International, Inc., licensed exclusively to Sun Microsystems, Inc. and is based upon an architecture developed by Sun Microsystems, Inc. UNIX is a registered trademark in the United States and other countries, licensed exclusively through X/Open Company, Ltd. Windows is a trademark of Microsoft Corporation. X Window System is a trademark of the Massachusetts Institute of Technology. I386, 486 and Pentium are trademarks of Intel Corporation. All other products or name brands are trademarks of their respective holders.



[Main Menu](#)



2005 Second Annual IEEE Communications Society Conference on Sensor and AdHoc Communications and Networks

Copyright © 2005 by The Institute of Electrical and Electronics Engineers, Inc.
All rights reserved.

Copyright and Reprint Permission

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limits of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint, or reproduction permission, write to IEEE Copyrights Manager, IEEE Operations Center, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331.

IEEE Catalog Number	05EX1032 (softbound) 05EX1032C (CD ROM)
ISBN	0-7803-9011-3 (softbound) 0-7803-9012-1 (CD ROM)
Library of Congress	2005922337

Additional copies of this publication are available from

IEEE Operations Center
P. O. Box 1331
445 Hoes Lane
Piscataway, NJ 08855-1331 USA

+1 800 678 IEEE
+1 732 981 1393
+1 732 981 0600
+1 732 981 9667 (FAX)
email: customer.service@ieee.org

A MESSAGE FROM THE TECHNICAL PROGRAM CO-CHAIRS

Welcome to the *Second Annual IEEE Communications Society Conference on Sensor and Ad hoc Communications and Networks (SECON)* in Santa Clara, CA. SECON 2005 promises to be an exciting conference that builds on the successful start of SECON 2004, held for the first time last year. SECON addresses the need to bring together researchers and developers in the area of ad hoc and sensor networks. Its purpose is to provide a forum for members of academia and industry to meet, exchange ideas, and learn about the newest research and technology in each of these areas.

The response to the call for papers was very positive. We received a total of 202 papers on various topics as solicited in our call for papers. Almost all the papers received at least three reviews and some received as many as five reviews if the original three reviews were not consistent in their evaluation. The first phase of the review process consisted of three independent reviews for each paper. Once the reviews were complete, the second phase consisted of a discussion on each paper, initiated by that paper's TPC Lead, between the three reviewers of the papers. The objective of the discussion was to reach an Accept/Discuss/Reject recommendation for the paper based on the TPC reviews. These recommendations guided our discussions during the TPC meeting. A full-day TPC meeting was held in Santa Barbara on June 3, 2005. As a result of this meeting, a total of 55 papers were accepted for presentation at the conference, reflecting an acceptance rate of approximately 27%.

The 55 papers have been organized into 24 technical sessions spanning three days of the conference. Keynote talks, panel discussions, demos and poster sessions complete the rest of the program. The Best Student Paper was selected by the TPC Co-chairs on the basis of reviews, our evaluation, and input from the TPC members. The winner of the Best Paper award will be announced during the opening ceremony of the conference.

We are very thankful to all the TPC members, each of whom reviewed more than 10 papers and served as the TPC Lead for four papers. We are also thankful to the external reviewers. The dedicated help and hard work of the TPC members and the external reviewers helped us put together a very strong technical program for the conference. We would also like to thank the General Chair, J.J. Garcia-Luna-Aceves, and the Standing Committee Chair, Fred Bauer, whose help was invaluable during the planning of the conference. Finally, we would also like to thank the past TPC Co-Chairs, Sung-Ju Lee and Prasant Mohapatra, for their guidance.

We welcome you to Santa Clara, CA, and hope that you will enjoy the conference program and the technical discussions with other researchers and practitioners. We also look forward to your continued participation in future SECON conferences.

Elizabeth Belding-Royer, Marwan Krunz, and Thyaga Nandagopal
IEEE SECON 2005 Technical Program Committee Co-Chairs

IEEE SECON 2005 Executive Committee

General Chair:	J.J. Garcia-Luna-Aceves, UC Santa Cruz (UCSC) and Palo Alto Research Center (PARC), jj@soe.ucsc.edu
Technical Program Co-Chairs:	Elizabeth Belding-Royer, UC Santa Barbara, ebelding@cs.ucsb.edu Marwan Krunz, University of Arizona, krunz@ece.arizona.edu Thyaga Nandagopal, Bell Laboratories, thyaga@lucent.com
Panel Co-Chairs:	Srikanth Krishnamurthy, University of California, Riverside, krish@cs.ucr.edu Rodrigo Garces, Raytheon, rodrigo_garces@raytheon.com
Tutorial Co-Chairs:	Cedric Westphal, Nokia Research Center, cedric.westphal@nokia.com Andreas Savvides, Yale University, andreas.savvides@yale.edu
Poster Chair:	David Gay, Intel Research Berkeley, dgay@intel-research.net
Demo co-chairs:	Bhaskar Krishnamachari, USC, bkrishna@usc.edu Fabio Silva, USC/ISI, fabio@isi.edu
Standing Committee Chair:	Fred Bauer, PacketHop, fredbauer@ieee.org
Publicity Chair:	Stefano Basagni, Northeastern University, basagni@ece.neu.edu
Finance Chair:	Bruce Worthman, IEEE Communications Society, Supervisor, Finance and Administration
Local Arrangement Chair:	JoAnne Holliday, Santa Clara Univ., jholliday@scu.edu
Web Chair:	Katia Obraczka, University of California Santa Cruz, katia@soe.ucsc.edu

**IEEE Communications
Society**

- Curtis Siller, President
- Nim Cheung, President Elect
- Doug Zuckerman, VP, Membership Services
- Harvey Freeman, VP Technical Activities
- Shri Goyal, Director, Meetings & Conferences
- John M. Howell, Executive Director
- Brian Bigalke, Department Head, Meetings & Conferences
- Gayle Weisman, Manager, Meetings & Conferences
(g.weisman@comsoc.org)

IEEE SECON 2005 Program Committee

Kevin Almeroth	UC Santa Barbara
Nancy Alonistioti	University of Athens
Suman Banerjee	University of Wisconsin
Sujata Banerjee	HP Laboratories
Stefano Basagni	Northeastern University
Raouf Boutaba	University of Waterloo
Andrew Campbell	Columbia University
Surendar Chandra	University of Notre Dame
Sunghyun Choi	Seoul National University
Chen-Nee Chuah	UC Davis
Thomas Clausen	INRIA
Marco Conti	IIT Institute - CNR Pisa
Sajal Das	University of Texas at Arlington
Tamer ElBatt	HRL Laboratories
Anthony Ephremides	University of Maryland, College Park
Silvia Giordano	University of Applied Science - SUPSI
Emin Gun Sirer	Cornell University
Richard Han	University of Colorado
Hossam Hassanein	Queens University
Thomas Hou	Virginia Tech
Sridhar Iyer	Indian Institute of Technology
Anupam Joshi	University of Maryland, Baltimore County
Rajeev Koodli	Nokia Research Center
Bhaskar Krishnamachari	University of Southern California
Lakshman Krishnamurthy	Intel Corporation
P.R. Kumar	UIUC
Srisankar Kunniyur	Motorola India
Tom La Porta	Penn State University
Sung-Ju Lee	HP Labs
Mingyan Liu	University of Michigan
Henrik Lundgren	Uppsala University
Richard Martin	Rutgers University
Seapahn Megerian	University of Wisconsin, Madison
Archan Misra	IBM TJ Watson Research Center
Prasant Mohapatra	UC Davis
Elena Pagani	University of Milano
Maria Papadopouli	UNC Chapel Hill

Charles Perkins	Nokia Research Center
Lili Qiu	University of Texas at Austin
Parmesh Ramanathan	University of Wisconsin at Madison
Srini Ramasubramanian	University of Arizona
Martin Reisslein	Arizona State University
Ebrahim Saberinia	University of Nevada, Las Vegas
Paolo Santi	CNR
Saswati Sarkar	University of Pennsylvania
Andreas Savvides	Yale University
Curt Schurgers	UC San Diego
Sanjay Shakkottai	University of Texas at Austin
Rajeev Shorey	IBM Research, New Delhi
Suresh Singh	Portland State University
Raghupathy Sivakumar	Georgia Institute of Technology
Krishna Sivalingam	University of Maryland, Baltimore County
Cedric Westphal	Nokia Research Center
Stephen Wicker	Cornell University
Guoliang Xue	Arizona State University
Mark Yarvis	Intel Corporation
Roy Yates	Rutgers
Bulent Yener	Rutgers University
Junshan Zhang	Arizona State University
Michele Zorzi	Università degli Studi di Padova

Corporate Patrons

Silver Patron:



Bronze Patrons



Sessions



- ❑ Session 1: Architectures and Platforms
- ❑ Session 2: Security
- ❑ Session 3: Resource Management and Network Planning
- ❑ Session 4: Routing and Forwarding I
- ❑ Session 5: Applications and Experimental Designs
- ❑ Session 6: Routing and Forwarding II
- ❑ Session 7: Topology Control
- ❑ Session 8: Network Modeling and Analysis
- ❑ Session 9: Scheduling
- ❑ Session 10: Energy Management
- ❑ Session 11: MAC and Spectrum Allocation
- ❑ Session 12: Routing and Forwarding III
- ❑ Session 13: Localization and Ranging
- ❑ Session 14: Network Coverage

[Main Menu](#)

Click on a title for a list of papers.

Papers by Session

Session 1: Architectures and Platforms

- ❑ [RISE - Co-S: High Performance Sensor Storage and Co-Processing Architecture](#)
A. Banerjee, A. Mitra, W. Najjar, D. Zeinalipour-Yazti, V. Kalogeraki and D. Gunopulos
- ❑ [A Scalable Framework for Distributed Time Synchronization in Multi-Hop Sensor Networks](#)
Ossama Younis and Sonia Fahmy
- ❑ [A Layered Architecture for Delay Sensitive Sensor Networks](#)
Dan Wang, Yan Long and Funda Ergun
- ❑ [Designing New Architectures and Protocols for Wireless Sensor Networks: A Perspective](#)
Mukundan Venkataraman, Kartik Muralidharan and Puneet Gupta



Main Menu

Sessions

Click on a title to see the paper.



Papers by Session

Session 2: Security

- ☐ [Group Key Distribution via Local Collaboration in Wireless Sensor Networks](#)
Anuj Chadha, Yonghe Liu and Sajal K. Das
- ☐ [Secure Cooperative Mobile Ad Hoc Networks Against Injecting Traffic Attacks](#)
Wei Yu and K. J. Ray Liu
- ☐ [Stimulating Cooperation and Defending Against Attacks in Self-Organized Mobile Ad Hoc Networks](#)
Wei Yu and K. J. Ray Liu
- ☐ [Efficient Hierarchical Key Generation and Key Diffusion for Sensor Networks](#)
Mohamed Shehab, Elisa Bertino and Arif Ghafoor



[Main Menu](#)

[Sessions](#)

Click on a title to see the paper.



Papers by Session

Session 3: Resource Management and Network Planning

- ❑ [Price/Utility-Based Optimized Resource Allocation in Wireless Ad Hoc Networks](#)
Calin Curescu and Simin Nadjm-Tehrani
- ❑ [Congestion Control in Multi-Hop Wireless Networks](#)
Kun Tan, Qian Zhang, Feng Jiang and Xuemin Shen
- ❑ [Proactive Address Autoconfiguration and Prefix Continuity in IPv6 Hybrid Ad Hoc Networks](#)
Christophe Jelger and Thomas Noel
- ❑ [Key Pre-Distribution in Wireless Sensor Networks Using Multivariate Polynomials](#)
Farshid Delgosha and Faramarz Fekri



[Main Menu](#)

[Sessions](#)

Click on a title to see the paper.



Papers by Session

Session 4: Routing and Forwarding I

- ☐ [On the Forwarding Area of Contention-Based Geographic Forwarding for Ad Hoc and Sensor Networks](#)
Dazhi Chen, Jing Deng and Pramod K. Varshney
- ☐ [Channel-Adaptive Relaying in Mobile Ad Hoc Networks with Fading](#)
Michael R. Souryal and Nader Moayeri
- ☐ [Improving the Performability of Data Transfer in Mobile Ad Hoc Networks](#)
Marco Conti, Enrico Gregori and Gaia Maselli
- ☐ [Routing in a Highly Dynamic Topology](#)
Yashar Ganjali and Nick McKeown



[Main Menu](#)

[Sessions](#)

Click on a title to see the paper.



Papers by Session

Session 5: Applications and Experimental Designs

- ☐ [Redundant Reader Elimination in RFID Systems](#)
Bogdan Carbunar, Murali Krishna Ramanathan, Mehmet Koyutürk, Christoph Hoffmann and Ananth Grama
- ☐ [Streaming Versus Batch Processing of Sensor Data in a Hazardous Weather Detection System](#)
Mark Sims, Jim Kurose and Victor Lesser
- ☐ [Switching Kalman Filters for Prediction and Tracking in an Adaptive Meteorological Sensing Network](#)
Victoria Manfredi, Sridhar Mahadevan and Jim Kurose
- ☐ [Embedding Intelligent Sensor Signal Change Detection into Sensor Network Protocols](#)
Leon Reznik, Gregory Von Pless and Tayeb Al Karim



[Main Menu](#)

[Sessions](#)

Click on a title to see the paper.



Papers by Session

Session 6: Routing and Forwarding II

- ☐ [Expected Data Rate: An Accurate High-Throughput Path Metric for Multi-Hop Wireless Routing](#)
Jun Cheol Park and Sneha Kumar Kasera
- ☐ [A Local Metric for Geographic Routing with Power Control in Wireless Networks](#)
Chih-ping Li, Wei-jen Hsu, Bhaskar Krishnamachari and Ahmed Helmy
- ☐ [Scalable Routing for Networked Sensors and Actuators](#)
Thomas Fuhrmann
- ☐ [Blacklist-Aided Forwarding in Static Multihop Wireless Networks](#)
Srihari Nelakuditi, Sanghwan Lee, Yinzhe Yu, Junling Wang, Zifei Zhong, Guor-Huar Lu and Zhi-Li Zhang



[Main Menu](#)

[Sessions](#)

Click on a title to see the paper.



Papers by Session

Session 7: Topology Control

- ❑ [Interference-Aware Topology Control for Wireless Sensor Networks](#)

Xiang-Yang Li, Kousha Moaveni-Nejad, Wen-Zhan Song and Wei-Zhao Wang

- ❑ [Optimal Placement of Nodes in Large Sensor Networks Under a General Physical Layer Model](#)

S. Toumpis and G. A. Gupta

- ❑ [Mesh Topology Construction for Interconnected Wireless LANs](#)

Huei-jiun Ju and Izhak Rubin

- ❑ [Prolonging Sensor Network Lifetime with Energy Provisioning and Relay Node Placement](#)

Y. Thomas Hou, Yi Shi, Hanif D. Sherali and Scott F. Midkiff



[Main Menu](#)

[Sessions](#)

Click on a title to see the paper.



Papers by Session

Session 8: Network Modeling and Analysis

- ❑ [Modeling Spatially-Correlated Data of Sensor Networks with Irregular Topologies](#)

Apoorva Jindal and Konstantinos Psounis

- ❑ [The Impact of the Topology on the Throughput of Interference-Limited Sensor Networks with Rayleigh Fading](#)

Xiaowen Liu and Martin Haenggi

- ❑ [Practical Limits on Achievable Energy Improvements and Useable Delay Tolerance in Correlation Aware Data Gathering in Wireless Sensor Networks](#)

Yujie Zhu, Karthikeyan Sundaresan and Raghupathy Sivakumar

- ❑ [Modelling the Effect of Network Parameters on Delay in Wireless Ad-Hoc Networks](#)

Srisankar S. Kunniyur and Srihari Narasimhan



[Main Menu](#)

[Sessions](#)

Click on a title to see the paper.



Papers by Session

Session 9: Scheduling

- ❑ Collaborative Two-Level Task Scheduling for Wireless Sensor Nodes with Multiple Sensing Units

H. Ozgur Sanli, Rajesh Poornachandran and Hasan Cam

- ❑ Energy Efficient Joint Scheduling and Power Control for Wireless Sensor Networks

Gang Lu and Bhaskar Krishnamachari

- ❑ A Dynamic Clustering and Scheduling Approach to Energy Saving in Data Collection from Wireless Sensor Networks

Chong Liu, Kui Wu and Jian Pei

- ❑ Partitioning Based Mobile Element Scheduling in Wireless Sensor Networks

Yaoyao Gu, Doruk Bozdog, Eylem Ekici, Füsün Özgüner and Chang-Gun Lee



Main Menu

Sessions

Click on a title to see the paper.



Papers by Session

Session 10: Energy Management

- ☐ [EASE: An Energy-Efficient In-Network Storage Scheme for Object Tracking in Sensor Networks](#)
Jianliang Xu, Xueyan Tang and Wang-Chien Lee
- ☐ [Evolutionary Energy Management and Design of Wireless Sensor Networks](#)
Konstantinos P. Ferentinos and Theodore A. Tsiligiridis
- ☐ [Power Management in Delay Tolerant Networks: A Framework and Knowledge-Based Mechanisms](#)
Hyewon Jun, Mostafa H. Ammar and Ellen W. Zegura
- ☐ [Battery Discharge Characteristics of Wireless Sensor Nodes: An Experimental Analysis](#)
Chulsung Park, Kanishka Lahiri and Anand Raghunathan



[Main Menu](#)

[Sessions](#)

Click on a title to see the paper.



Papers by Session

Session 11: MAC and Spectrum Allocation

- ❑ [SoftMAC: Layer 2.5 MAC for VoIP Support in Multi-Hop Wireless Networks](#)

Haitao Wu, Xin Wang, Yunxin Liu, Qian Zhang and Zhi-Li Zhang

- ❑ [A Multiband MAC Protocol for Impulse-Based UWB Ad Hoc Networks](#)

Ioannis Broustis, Srikanth Krishnamurthy, Michalis Faloutsos, Mart Molle and Jeffrey Foerster

- ❑ [Optimization Models for Fixed Channel Assignment in Wireless Mesh Networks with Multiple Radios](#)

Arindam K. Das, Hamed M. K. Alazemi, Rajiv Vijayakumar and Sumit Roy

- ❑ [Distributed Spectrum Allocation via Local Bargaining](#)

Lili Cao and Haitao Zheng



[Main Menu](#)

[Sessions](#)

Click on a title to see the paper.



Papers by Session

Session 12: Routing and Forwarding III

☐ [Variable-Resolution Information Dissemination](#)

Arpita Ghosh, Dan Greene, Qingfeng Huang and Juan Liu

☐ [Attribute-Based Clustering for Information Dissemination in Wireless Sensor Networks](#)

Ke Wang, Salma Abu Ayyash, Thomas D. C. Little and Prithwish Basu

☐ [Reliable Broadcast in ZigBee Networks](#)

Gang Ding, Zafer Sahinoglu, Bharat Bhargava, Philip Orlik and Jinyun Zhang

☐ [Securing MAODV: Attacks and Countermeasures](#)

Sankardas Roy, V. Gopala Addada, Sanjeev Setia and Sushil Jajodia



[Main Menu](#)

[Sessions](#)

Click on a title to see the paper.



Papers by Session

Session 13: Localization and Ranging

- ❑ [Precise Localization in Coarse-Grained Localization Algorithms Through Local Learning](#)
Ralf Salomon
- ❑ [Robust, Probabilistic, Constraint-Based Localization for Wireless Sensor Networks](#)
Rong Peng and Mihail L. Sichitiu
- ❑ [Acquiring Medium Models for Sensing Performance Estimation](#)
Aman Kansal, James Carwana, William J. Kaiser and Mani B. Srivastava



[Main Menu](#)

[Sessions](#)

Click on a title to see the paper.



Papers by Session

Session 14: Network Coverage

- ❑ [Outage Probabilities in Poisson and Clumped Poisson-Distributed Hybrid Ad-Hoc Networks](#)
Sayandev Mukherjee and Dan Avidor
- ❑ [Relay Node Deployment Strategies in Heterogeneous Wireless Sensor Networks: Multiple-Hop Communication Case](#)
Kenan Xu, Hossam Hassanein and Glen Takahara
- ❑ [Energy-Efficient Sensor Network Design Subject to Complete Coverage and Discrimination Constraints](#)
Frank Y. S. Lin and P. L. Chiu
- ❑ [Fault Tolerant Connected Sensor Cover with Variable Sensing and Transmission Ranges](#)
Zongheng Zhou, Samir Das and Himanshu Gupta



[Main Menu](#)

[Sessions](#)

Click on a title to see the paper.



Authors



A B C D E F G H I
J K L M N O P Q R
S T U V W X Y Z

[Main Menu](#)

[Authors](#)

Colored letters are active links to the index.

Authors



A

- ☐ [Addada, V. Gopala](#)
- ☐ [Al Karim, Tayeb](#)
- ☐ [Alazemi, Hamed M. K.](#)
- ☐ [Ammar, Mostafa H.](#)
- ☐ [Avidor, Dan](#)
- ☐ [Ayyash, Salma Abu](#)

B

- ☐ [Banerjee, A.](#)
- ☐ [Basu, Prithwish](#)
- ☐ [Bertino, Elisa](#)
- ☐ [Bhargava, Bharat](#)
- ☐ [Bozdag, Doruk](#)
- ☐ [Broustis, Ioannis](#)

C

- ☐ [Cam, Hasan](#)

- ☐ [Cao, Lili](#)
- ☐ [Carbunar, Bogdan](#)
- ☐ [Carwana, James](#)
- ☐ [Chadha, Anuj](#)
- ☐ [Chen, Dazhi](#)
- ☐ [Chiu, P. L.](#)
- ☐ [Conti, Marco](#)
- ☐ [Curescu, Calin](#)

D

- ☐ [Das, Arindam K.](#)
- ☐ [Das, Sajal K.](#)
- ☐ [Das, Samir](#)
- ☐ [Delgosha, Farshid](#)
- ☐ [Deng, Jing](#)
- ☐ [Ding, Gang](#)

E

- ☐ [Ekici, Eylem](#)

[Main Menu](#)

[Authors](#)

Click on a name for a list of papers.



Authors



☐ Ergun, Funda

F

☐ Fahmy, Sonia

☐ Faloutsos, Michalis

☐ Fekri, Faramarz

☐ Ferentinos, Konstantinos
P.

☐ Foerster, Jeffrey

☐ Fuhrmann, Thomas

G

☐ Ganjali, Yashar

☐ Ghafoor, Arif

☐ Ghosh, Arpita

☐ Grama, Ananth

☐ Greene, Dan

☐ Gregori, Enrico

☐ Gu, Yaoyao

☐ Gunopulos, D.

☐ Gupta, G. A.

☐ Gupta, Himanshu

☐ Gupta, Puneet

H

☐ Haenggi, Martin

☐ Hassanein, Hossam

☐ Helmy, Ahmed

☐ Hoffmann, Christoph

☐ Hou, Y. Thomas

☐ Hsu, Wei-jen

☐ Huang, Qingfeng

J

☐ Jajodia, Sushil

☐ Jelger, Christophe

☐ Jiang, Feng

☐ Jindal, Apoorva

[Main Menu](#)

[Authors](#)

Click on a name for a list of papers.



Authors



- ☐ Ju, Huei-jiun
- ☐ Jun, Hyewon

K

- ☐ Kaiser, William J.
- ☐ Kalogeraki, V.
- ☐ Kansal, Aman
- ☐ Kasera, Sneha Kumar
- ☐ Koyutürk, Mehmet
- ☐ Krishnamachari, Bhaskar
- ☐ Krishnamurthy, Srikanth
- ☐ Kunniyur, Srisankar S.
- ☐ Kurose, Jim

L

- ☐ Lahiri, Kanishka
- ☐ Lee, Chang-Gun
- ☐ Lee, Sanghwan
- ☐ Lee, Wang-Chien

- ☐ Lesser, Victor
- ☐ Li, Chih-ping
- ☐ Li, Xiang-Yang
- ☐ Lin, Frank Y. S.
- ☐ Little, Thomas D. C.
- ☐ Liu, Chong
- ☐ Liu, Juan
- ☐ Liu, K. J. Ray
- ☐ Liu, Xiaowen
- ☐ Liu, Yonghe
- ☐ Liu, Yunxin
- ☐ Long, Yan
- ☐ Lu, Gang
- ☐ Lu, Guor-Huar

M

- ☐ Mahadevan, Sridhar
- ☐ Manfredi, Victoria

Main Menu

Authors

Click on a name for a list of papers.



Authors



- ☐ Maselli, Gaia
- ☐ McKeown, Nick
- ☐ Midkiff, Scott F.
- ☐ Mitra, A.
- ☐ Moaveni-Nejad, Kousha
- ☐ Moayeri, Nader
- ☐ Molle, Mart
- ☐ Mukherjee, Sayandev
- ☐ Muralidharan, Kartik

N

- ☐ Nadjm-Tehrani, Simin
- ☐ Najjar, W.
- ☐ Narasimhan, Srihari
- ☐ Nelakuditi, Srihari
- ☐ Noel, Thomas

O

- ☐ Orlik, Philip

- ☐ Özgüner, Füsün

P

- ☐ Park, Chulsung
- ☐ Park, Jun Cheol
- ☐ Pei, Jian
- ☐ Peng, Rong
- ☐ Poornachandran, Rajesh
- ☐ Psounis, Konstantinos

R

- ☐ Raghunathan, Anand
- ☐ Ramanathan, Murali Krishna
- ☐ Reznik, Leon
- ☐ Roy, Sankardas
- ☐ Roy, Sumit
- ☐ Rubin, Izhak

Main Menu

Authors

Click on a name for a list of papers.



Authors



S

- ☐ Sahinoglu, Zafer
- ☐ Salomon, Ralf
- ☐ Sanli, H. Ozgur
- ☐ Setia, Sanjeev
- ☐ Shehab, Mohamed
- ☐ Shen, Xuemin
- ☐ Sherali, Hanif D.
- ☐ Shi, Yi
- ☐ Sichitiu, Mihail L.
- ☐ Sims, Mark
- ☐ Sivakumar, Raghupathy
- ☐ Song, Wen-Zhan
- ☐ Souryal, Michael R.
- ☐ Srivastava, Mani B.
- ☐ Sundaresan, Karthikeyan

T

- ☐ Takahara, Glen
- ☐ Tan, Kun
- ☐ Tang, Xueyan
- ☐ Toumpis, S.
- ☐ Tsiligiridis, Theodore A.

V

- ☐ Varshney, Pramod K.
- ☐ Venkataraman, Mukundan
- ☐ Vijayakumar, Rajiv
- ☐ Von Pless, Gregory

W

- ☐ Wang, Dan
- ☐ Wang, Junling
- ☐ Wang, Ke
- ☐ Wang, Wei-Zhao

Main Menu

Authors

Click on a name for a list of papers.



Authors



- ☐ Wang, Xin
- ☐ Wu, Haitao
- ☐ Wu, Kui

X

- ☐ Xu, Jianliang
- ☐ Xu, Kenan

Y

- ☐ Younis, Ossama
- ☐ Yu, Wei
- ☐ Yu, Yinzhe

Z

- ☐ Zegura, Ellen W.
- ☐ Zeinalipour-Yazti, D.
- ☐ Zhang, Jinyun
- ☐ Zhang, Qian
- ☐ Zhang, Zhi-Li

- ☐ Zheng, Haitao
- ☐ Zhong, Zifei
- ☐ Zhou, Zongheng
- ☐ Zhu, Yujie

Main Menu

Authors

Click on a name for a list of papers.



Papers by Author



Addada, V. Gopala

- ☐ [Securing MAODV: Attacks and Countermeasures](#)

Al Karim, Tayeb

- ☐ [Embedding Intelligent Sensor Signal Change Detection into Sensor Network Protocols](#)

Alazemi, Hamed M. K.

- ☐ [Optimization Models for Fixed Channel Assignment in Wireless Mesh Networks with Multiple Radios](#)

Ammar, Mostafa H.

- ☐ [Power Management in Delay Tolerant Networks: A Framework and Knowledge-Based Mechanisms](#)

Avidor, Dan

- ☐ [Outage Probabilities in Poisson and Clumped Poisson-Distributed Hybrid Ad-Hoc Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Ayyash, Salma Abu

- ❑ [Attribute-Based Clustering for Information Dissemination in Wireless Sensor Networks](#)

Banerjee, A.

- ❑ [RISE - Co-S: High Performance Sensor Storage and Co-Processing Architecture](#)

Basu, Prithwish

- ❑ [Attribute-Based Clustering for Information Dissemination in Wireless Sensor Networks](#)

Bertino, Elisa

- ❑ [Efficient Hierarchical Key Generation and Key Diffusion for Sensor Networks](#)

Bhargava, Bharat

- ❑ [Reliable Broadcast in ZigBee Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Bozdag, Doruk

- ☐ [Partitioning Based Mobile Element Scheduling in Wireless Sensor Networks](#)

Broustis, Ioannis

- ☐ [A Multiband MAC Protocol for Impulse-Based UWB Ad Hoc Networks](#)

Cam, Hasan

- ☐ [Collaborative Two-Level Task Scheduling for Wireless Sensor Nodes with Multiple Sensing Units](#)

Cao, Lili

- ☐ [Distributed Spectrum Allocation via Local Bargaining](#)

Carbunar, Bogdan

- ☐ [Redundant Reader Elimination in RFID Systems](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Carwana, James

- ☐ [Acquiring Medium Models for Sensing Performance Estimation](#)

Chadha, Anuj

- ☐ [Group Key Distribution via Local Collaboration in Wireless Sensor Networks](#)

Chen, Dazhi

- ☐ [On the Forwarding Area of Contention-Based Geographic Forwarding for Ad Hoc and Sensor Networks](#)

Chiu, P. L.

- ☐ [Energy-Efficient Sensor Network Design Subject to Complete Coverage and Discrimination Constraints](#)

Conti, Marco

- ☐ [Improving the Performability of Data Transfer in Mobile Ad Hoc Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Curescu, Calin

- ☐ [Price/Utility-Based Optimized Resource Allocation in Wireless Ad Hoc Networks](#)

Das, Arindam K.

- ☐ [Optimization Models for Fixed Channel Assignment in Wireless Mesh Networks with Multiple Radios](#)

Das, Sajal K.

- ☐ [Group Key Distribution via Local Collaboration in Wireless Sensor Networks](#)

Das, Samir

- ☐ [Fault Tolerant Connected Sensor Cover with Variable Sensing and Transmission Ranges](#)

Delgosha, Farshid

- ☐ [Key Pre-Distribution in Wireless Sensor Networks Using Multivariate Polynomials](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Deng, Jing

- ☐ [On the Forwarding Area of Contention-Based Geographic Forwarding for Ad Hoc and Sensor Networks](#)

Ding, Gang

- ☐ [Reliable Broadcast in ZigBee Networks](#)

Ekici, Eylem

- ☐ [Partitioning Based Mobile Element Scheduling in Wireless Sensor Networks](#)

Ergun, Funda

- ☐ [A Layered Architecture for Delay Sensitive Sensor Networks](#)

Fahmy, Sonia

- ☐ [A Scalable Framework for Distributed Time Synchronization in Multi-Hop Sensor Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Faloutsos, Michalis

- ☐ [A Multiband MAC Protocol for Impulse-Based UWB Ad Hoc Networks](#)

Fekri, Faramarz

- ☐ [Key Pre-Distribution in Wireless Sensor Networks Using Multivariate Polynomials](#)

Ferentinos, Konstantinos P.

- ☐ [Evolutionary Energy Management and Design of Wireless Sensor Networks](#)

Foerster, Jeffrey

- ☐ [A Multiband MAC Protocol for Impulse-Based UWB Ad Hoc Networks](#)

Fuhrmann, Thomas

- ☐ [Scalable Routing for Networked Sensors and Actuators](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Ganjali, Yashar

- ☐ [Routing in a Highly Dynamic Topology](#)

Ghafoor, Arif

- ☐ [Efficient Hierarchical Key Generation and Key Diffusion for Sensor Networks](#)

Ghosh, Arpita

- ☐ [Variable-Resolution Information Dissemination](#)

Grama, Ananth

- ☐ [Redundant Reader Elimination in RFID Systems](#)

Greene, Dan

- ☐ [Variable-Resolution Information Dissemination](#)

Gregori, Enrico

- ☐ [Improving the Performability of Data Transfer in Mobile Ad Hoc Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Gu, Yaoyao

- ❑ [Partitioning Based Mobile Element Scheduling in Wireless Sensor Networks](#)

Gunopulos, D.

- ❑ [RISE - Co-S: High Performance Sensor Storage and Co-Processing Architecture](#)

Gupta, G. A.

- ❑ [Optimal Placement of Nodes in Large Sensor Networks Under a General Physical Layer Model](#)

Gupta, Himanshu

- ❑ [Fault Tolerant Connected Sensor Cover with Variable Sensing and Transmission Ranges](#)

Gupta, Puneet

- ❑ [Designing New Architectures and Protocols for Wireless Sensor Networks: A Perspective](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Haenggi, Martin

- ☐ [The Impact of the Topology on the Throughput of Interference-Limited Sensor Networks with Rayleigh Fading](#)

Hassanein, Hossam

- ☐ [Relay Node Deployment Strategies in Heterogeneous Wireless Sensor Networks: Multiple-Hop Communication Case](#)

Helmy, Ahmed

- ☐ [A Local Metric for Geographic Routing with Power Control in Wireless Networks](#)

Hoffmann, Christoph

- ☐ [Redundant Reader Elimination in RFID Systems](#)

Hou, Y. Thomas

- ☐ [Prolonging Sensor Network Lifetime with Energy Provisioning and Relay Node Placement](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Hsu, Wei-jen

- ☐ [A Local Metric for Geographic Routing with Power Control in Wireless Networks](#)

Huang, Qingfeng

- ☐ [Variable-Resolution Information Dissemination](#)

Jajodia, Sushil

- ☐ [Securing MAODV: Attacks and Countermeasures](#)

Jelger, Christophe

- ☐ [Proactive Address Autoconfiguration and Prefix Continuity in IPv6 Hybrid Ad Hoc Networks](#)

Jiang, Feng

- ☐ [Congestion Control in Multi-Hop Wireless Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Jindal, Apoorva

- ☐ [Modeling Spatially-Correlated Data of Sensor Networks with Irregular Topologies](#)

Ju, Huei-jiun

- ☐ [Mesh Topology Construction for Interconnected Wireless LANs](#)

Jun, Hyewon

- ☐ [Power Management in Delay Tolerant Networks: A Framework and Knowledge-Based Mechanisms](#)

Kaiser, William J.

- ☐ [Acquiring Medium Models for Sensing Performance Estimation](#)

Kalogeraki, V.

- ☐ [RISE - Co-S: High Performance Sensor Storage and Co-Processing Architecture](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Kansal, Aman

- ☐ [Acquiring Medium Models for Sensing Performance Estimation](#)

Kasera, Sneha Kumar

- ☐ [Expected Data Rate: An Accurate High-Throughput Path Metric for Multi-Hop Wireless Routing](#)

Koyutürk, Mehmet

- ☐ [Redundant Reader Elimination in RFID Systems](#)

Krishnamachari, Bhaskar

- ☐ [A Local Metric for Geographic Routing with Power Control in Wireless Networks](#)
- ☐ [Energy Efficient Joint Scheduling and Power Control for Wireless Sensor Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Krishnamurthy, Srikanth

- ☐ [A Multiband MAC Protocol for Impulse-Based UWB Ad Hoc Networks](#)

Kunniyur, Srisankar S.

- ☐ [Modelling the Effect of Network Parameters on Delay in Wireless Ad-Hoc Networks](#)

Kurose, Jim

- ☐ [Streaming Versus Batch Processing of Sensor Data in a Hazardous Weather Detection System](#)
- ☐ [Switching Kalman Filters for Prediction and Tracking in an Adaptive Meteorological Sensing Network](#)

Lahiri, Kanishka

- ☐ [Battery Discharge Characteristics of Wireless Sensor Nodes: An Experimental Analysis](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Lee, Chang-Gun

- ☐ [Partitioning Based Mobile Element Scheduling in Wireless Sensor Networks](#)

Lee, Sanghwan

- ☐ [Blacklist-Aided Forwarding in Static Multihop Wireless Networks](#)

Lee, Wang-Chien

- ☐ [EASE: An Energy-Efficient In-Network Storage Scheme for Object Tracking in Sensor Networks](#)

Lesser, Victor

- ☐ [Streaming Versus Batch Processing of Sensor Data in a Hazardous Weather Detection System](#)

Li, Chih-ping

- ☐ [A Local Metric for Geographic Routing with Power Control in Wireless Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Li, Xiang-Yang

- ☐ [Interference-Aware Topology Control for Wireless Sensor Networks](#)

Lin, Frank Y. S.

- ☐ [Energy-Efficient Sensor Network Design Subject to Complete Coverage and Discrimination Constraints](#)

Little, Thomas D. C.

- ☐ [Attribute-Based Clustering for Information Dissemination in Wireless Sensor Networks](#)

Liu, Chong

- ☐ [A Dynamic Clustering and Scheduling Approach to Energy Saving in Data Collection from Wireless Sensor Networks](#)

Liu, Juan

- ☐ [Variable-Resolution Information Dissemination](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Liu, K. J. Ray

- ☐ [Secure Cooperative Mobile Ad Hoc Networks Against Injecting Traffic Attacks](#)
- ☐ [Stimulating Cooperation and Defending Against Attacks in Self-Organized Mobile Ad Hoc Networks](#)

Liu, Xiaowen

- ☐ [The Impact of the Topology on the Throughput of Interference-Limited Sensor Networks with Rayleigh Fading](#)

Liu, Yonghe

- ☐ [Group Key Distribution via Local Collaboration in Wireless Sensor Networks](#)

Liu, Yunxin

- ☐ [SoftMAC: Layer 2.5 MAC for VoIP Support in Multi-Hop Wireless Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Long, Yan

- ☐ [A Layered Architecture for Delay Sensitive Sensor Networks](#)

Lu, Gang

- ☐ [Energy Efficient Joint Scheduling and Power Control for Wireless Sensor Networks](#)

Lu, Guor-Huar

- ☐ [Blacklist-Aided Forwarding in Static Multihop Wireless Networks](#)

Mahadevan, Sridhar

- ☐ [Switching Kalman Filters for Prediction and Tracking in an Adaptive Meteorological Sensing Network](#)

Manfredi, Victoria

- ☐ [Switching Kalman Filters for Prediction and Tracking in an Adaptive Meteorological Sensing Network](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Maselli, Gaia

- ☐ [Improving the Performability of Data Transfer in Mobile Ad Hoc Networks](#)

McKeown, Nick

- ☐ [Routing in a Highly Dynamic Topology](#)

Midkiff, Scott F.

- ☐ [Prolonging Sensor Network Lifetime with Energy Provisioning and Relay Node Placement](#)

Mitra, A.

- ☐ [RISE - Co-S: High Performance Sensor Storage and Co-Processing Architecture](#)

Moaveni-Nejad, Kousha

- ☐ [Interference-Aware Topology Control for Wireless Sensor Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Moayeri, Nader

- ☐ [Channel-Adaptive Relaying in Mobile Ad Hoc Networks with Fading](#)

Molle, Mart

- ☐ [A Multiband MAC Protocol for Impulse-Based UWB Ad Hoc Networks](#)

Mukherjee, Sayandev

- ☐ [Outage Probabilities in Poisson and Clumped Poisson-Distributed Hybrid Ad-Hoc Networks](#)

Muralidharan, Kartik

- ☐ [Designing New Architectures and Protocols for Wireless Sensor Networks: A Perspective](#)

Nadjm-Tehrani, Simin

- ☐ [Price/Utility-Based Optimized Resource Allocation in Wireless Ad Hoc Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Najjar, W.

- ☐ [RISE - Co-S: High Performance Sensor Storage and Co-Processing Architecture](#)

Narasimhan, Srihari

- ☐ [Modelling the Effect of Network Parameters on Delay in Wireless Ad-Hoc Networks](#)

Nelakuditi, Srihari

- ☐ [Blacklist-Aided Forwarding in Static Multihop Wireless Networks](#)

Noel, Thomas

- ☐ [Proactive Address Autoconfiguration and Prefix Continuity in IPv6 Hybrid Ad Hoc Networks](#)

Orlik, Philip

- ☐ [Reliable Broadcast in ZigBee Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Özgüner, Füsün

- ☐ [Partitioning Based Mobile Element Scheduling in Wireless Sensor Networks](#)

Park, Chulsung

- ☐ [Battery Discharge Characteristics of Wireless Sensor Nodes: An Experimental Analysis](#)

Park, Jun Cheol

- ☐ [Expected Data Rate: An Accurate High-Throughput Path Metric for Multi-Hop Wireless Routing](#)

Pei, Jian

- ☐ [A Dynamic Clustering and Scheduling Approach to Energy Saving in Data Collection from Wireless Sensor Networks](#)

Peng, Rong

- ☐ [Robust, Probabilistic, Constraint-Based Localization for Wireless Sensor Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Poornachandran, Rajesh

- ❑ Collaborative Two-Level Task Scheduling for Wireless Sensor Nodes with Multiple Sensing Units

Psounis, Konstantinos

- ❑ Modeling Spatially-Correlated Data of Sensor Networks with Irregular Topologies

Raghunathan, Anand

- ❑ Battery Discharge Characteristics of Wireless Sensor Nodes: An Experimental Analysis

Ramanathan, Murali Krishna

- ❑ Redundant Reader Elimination in RFID Systems

Reznik, Leon

- ❑ Embedding Intelligent Sensor Signal Change Detection into Sensor Network Protocols

Main Menu

Authors

Click on a title to see the paper.



Papers by Author



Roy, Sankardas

- ☐ [Securing MAODV: Attacks and Countermeasures](#)

Roy, Sumit

- ☐ [Optimization Models for Fixed Channel Assignment in Wireless Mesh Networks with Multiple Radios](#)

Rubin, Izhak

- ☐ [Mesh Topology Construction for Interconnected Wireless LANs](#)

Sahinoglu, Zafer

- ☐ [Reliable Broadcast in ZigBee Networks](#)

Salomon, Ralf

- ☐ [Precise Localization in Coarse-Grained Localization Algorithms Through Local Learning](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Sanli, H. Ozgur

- ❑ Collaborative Two-Level Task Scheduling for Wireless Sensor Nodes with Multiple Sensing Units

Setia, Sanjeev

- ❑ Securing MAODV: Attacks and Countermeasures

Shehab, Mohamed

- ❑ Efficient Hierarchical Key Generation and Key Diffusion for Sensor Networks

Shen, Xuemin

- ❑ Congestion Control in Multi-Hop Wireless Networks

Sherali, Hanif D.

- ❑ Prolonging Sensor Network Lifetime with Energy Provisioning and Relay Node Placement

Main Menu

Authors

Click on a title to see the paper.



Papers by Author



Shi, Yi

- ❑ [Prolonging Sensor Network Lifetime with Energy Provisioning and Relay Node Placement](#)

Sichitiu, Mihail L.

- ❑ [Robust, Probabilistic, Constraint-Based Localization for Wireless Sensor Networks](#)

Sims, Mark

- ❑ [Streaming Versus Batch Processing of Sensor Data in a Hazardous Weather Detection System](#)

Sivakumar, Raghupathy

- ❑ [Practical Limits on Achievable Energy Improvements and Useable Delay Tolerance in Correlation Aware Data Gathering in Wireless Sensor Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Song, Wen-Zhan

- ☐ [Interference-Aware Topology Control for Wireless Sensor Networks](#)

Souryal, Michael R.

- ☐ [Channel-Adaptive Relaying in Mobile Ad Hoc Networks with Fading](#)

Srivastava, Mani B.

- ☐ [Acquiring Medium Models for Sensing Performance Estimation](#)

Sundaresan, Karthikeyan

- ☐ [Practical Limits on Achievable Energy Improvements and Useable Delay Tolerance in Correlation Aware Data Gathering in Wireless Sensor Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Takahara, Glen

- ❑ [Relay Node Deployment Strategies in Heterogeneous Wireless Sensor Networks: Multiple-Hop Communication Case](#)

Tan, Kun

- ❑ [Congestion Control in Multi-Hop Wireless Networks](#)

Tang, Xueyan

- ❑ [EASE: An Energy-Efficient In-Network Storage Scheme for Object Tracking in Sensor Networks](#)

Toumpis, S.

- ❑ [Optimal Placement of Nodes in Large Sensor Networks Under a General Physical Layer Model](#)

Tsiligiridis, Theodore A.

- ❑ [Evolutionary Energy Management and Design of Wireless Sensor Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Varshney, Pramod K.

- ❑ [On the Forwarding Area of Contention-Based Geographic Forwarding for Ad Hoc and Sensor Networks](#)

Venkataraman, Mukundan

- ❑ [Designing New Architectures and Protocols for Wireless Sensor Networks: A Perspective](#)

Vijayakumar, Rajiv

- ❑ [Optimization Models for Fixed Channel Assignment in Wireless Mesh Networks with Multiple Radios](#)

Von Pless, Gregory

- ❑ [Embedding Intelligent Sensor Signal Change Detection into Sensor Network Protocols](#)

Wang, Dan

- ❑ [A Layered Architecture for Delay Sensitive Sensor Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Wang, Junling

- ☐ [Blacklist-Aided Forwarding in Static Multihop Wireless Networks](#)

Wang, Ke

- ☐ [Attribute-Based Clustering for Information Dissemination in Wireless Sensor Networks](#)

Wang, Wei-Zhao

- ☐ [Interference-Aware Topology Control for Wireless Sensor Networks](#)

Wang, Xin

- ☐ [SoftMAC: Layer 2.5 MAC for VoIP Support in Multi-Hop Wireless Networks](#)

Wu, Haitao

- ☐ [SoftMAC: Layer 2.5 MAC for VoIP Support in Multi-Hop Wireless Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Wu, Kui

- ❑ [A Dynamic Clustering and Scheduling Approach to Energy Saving in Data Collection from Wireless Sensor Networks](#)

Xu, Jianliang

- ❑ [EASE: An Energy-Efficient In-Network Storage Scheme for Object Tracking in Sensor Networks](#)

Xu, Kenan

- ❑ [Relay Node Deployment Strategies in Heterogeneous Wireless Sensor Networks: Multiple-Hop Communication Case](#)

Younis, Ossama

- ❑ [A Scalable Framework for Distributed Time Synchronization in Multi-Hop Sensor Networks](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Yu, Wei

- ☐ [Secure Cooperative Mobile Ad Hoc Networks Against Injecting Traffic Attacks](#)
- ☐ [Stimulating Cooperation and Defending Against Attacks in Self-Organized Mobile Ad Hoc Networks](#)

Yu, Yinzhe

- ☐ [Blacklist-Aided Forwarding in Static Multihop Wireless Networks](#)

Zegura, Ellen W.

- ☐ [Power Management in Delay Tolerant Networks: A Framework and Knowledge-Based Mechanisms](#)

Zeinalipour-Yazti, D.

- ☐ [RISE - Co-S: High Performance Sensor Storage and Co-Processing Architecture](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author



Zhang, Jinyun

- ☐ [Reliable Broadcast in ZigBee Networks](#)

Zhang, Qian

- ☐ [Congestion Control in Multi-Hop Wireless Networks](#)
- ☐ [SoftMAC: Layer 2.5 MAC for VoIP Support in Multi-Hop Wireless Networks](#)

Zhang, Zhi-Li

- ☐ [Blacklist-Aided Forwarding in Static Multihop Wireless Networks](#)
- ☐ [SoftMAC: Layer 2.5 MAC for VoIP Support in Multi-Hop Wireless Networks](#)

Zheng, Haitao

- ☐ [Distributed Spectrum Allocation via Local Bargaining](#)

[Main Menu](#)

[Authors](#)

Click on a title to see the paper.



Papers by Author

Zhong, Zifei

- ☐ [Blacklist-Aided Forwarding in Static Multihop Wireless Networks](#)

Zhou, Zongheng

- ☐ [Fault Tolerant Connected Sensor Cover with Variable Sensing and Transmission Ranges](#)

Zhu, Yujie

- ☐ [Practical Limits on Achievable Energy Improvements and Useable Delay Tolerance in Correlation Aware Data Gathering in Wireless Sensor Networks](#)



[Main Menu](#)

[Authors](#)

Click on a title to see the paper.

