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RESEARCH INTERESTS

Wireless Mesh Networks, Cellular Networks, Ad Hoc Networks, Sensor Networks,
Wireless Security, QoS support and Cooperative Security in the Internet.

TEACHING EXPERIENCE

Undergraduate Courses:

Computer Networks
Computer System Architecture
Computer Organization
Introduction to Computer Science

Graduate Courses:

Advanced Computer Networks
Wireless and Mobile Networks
Computer System Performance
Computer Architecture

EDUCATION

Ph.D.	The Pennsylvania State University University Park, PA	1993
M.S.	The University of Rhode Island Kingston, RI	1989
B. S.	National Institute of Technology Rourkela, India	1987

PROFESSIONAL EXPERIENCE

2009 --	Tim Bucher Family Endowed Chair, University of California, Davis, CA
2007 --	Chair, Computer Science Department, University of California, Davis, CA
2003 --	Professor, Computer Science Department, University of California, Davis, CA
2006 - 2008	Director, Center for Future Information Technology (CFIT)
June-Aug. 2009	Visiting Professor, Yonsei University, South Korea
June-Aug. 2008	Visiting Professor, Yonsei University, South Korea
June-Aug. 2007	Visiting Professor, Yonsei University, South Korea
2004 -- 2007	Chair, Graduate Group in Computer Science

University of California, Davis, CA

Nov-Dec., 2004 Visiting Researcher, National ICT Australia (NICTA), Sydney, Australia

July-Oct., 2004 Visiting Scientist, Institute for Infocomm Research (I2R), Singapore

2001 -- 2003 Associate Professor, Computer Science Department,
University of California, Davis, CA

1999 – 2001 Associate Professor, Computer Science & Engineering Department
Michigan State University, East Lansing, MI

May-Aug, 2000 Visiting Professor, Intel Corporation, Beaverton, Oregon

May-Aug, 1999 Visiting Professor, Intel Corporation, Beaverton, Oregon

1998-1999 Associate Professor, Electrical and Computer Engineering Department
Iowa State University, Ames, IA 50011

May-July, 1998 Visiting Scientist, Panasonic Information and Networking Technologies
Laboratory, Panasonic Technologies Inc., Princeton, New Jersey

1993-1998 Assistant Professor, Electrical and Computer Engineering Department
Iowa State University, Ames, IA 50011

1990-1993 Teaching/Research Assistant
The Pennsylvania State University, University Park, PA

1987-1989 Teaching/Research Assistant
The University of Rhode Island, Kingston, RI

HONORS AND AWARDS

- Fellow of the IEEE
- Outstanding Engineering Alumni Award, Pennsylvania State University, 2008
- Best Paper Award, IEEE Wireless Mobile Computing (WiMob) Conference, 2009
- Supervisor, Best Doctoral Dissertation Award from the College of Engineering, 2007 (Student: Chao Gui)
- Outstanding Graduate Research Award, Pennsylvania State University, 1993

CONSULTING ACTIVITIES AND INDUSTRIAL AFFILIATIONS

Jul. 2010 – Consultant, AT&T Research

Dec. 2007 – Mar. 2008 Consultant, Siemens

June 2004 – Oct. 2004: Consultant, Siemens

Aug. 2003 – Sept. 2003: Consultant, Intel Corporation

Oct. 2000 – July 2001: Chief Technology Officer, Polyphasic Corporation, Michigan

June 2000 – July 2000: Consultant, Intel Corporation
Jan. 2000 – May 2000: Consultant, Panasonic Information Networking and
Technologies Laboratory

GRANTS AND CONTRACTS

- [52] P. Mohapatra (PI), \$140,000, National Science Foundation, “CIFellows Project,” 2010-11.
- [51] P. Mohapatra (PI), Total \$35.5M, \$7,000,000 (UC Davis Share), Army Research Laboratory, Collaborative Technology Alliance (CTA), “Quality of Information Aware Networks for Tactical Applications,” (Co-PIs: K. Levitt, F. Wu, R. D’Souza, Q. Zhao), 2009-2019.
- [50] P. Mohapatra (PI), \$38,400, UC MICRO, “Cross-Layer Techniques for Resource Management in Wireless Mesh networks,” 2008-09 (Co-PIs: X. Liu, C. Chuah).
- [49] P. Mohapatra (Co-PI), \$65,000, Intel Corporation, “SWiM: Scalable Wireless Mesh Networks,” 2008-09 (PI: X. Liu).
- [48] P. Mohapatra (PI), \$200,000, National Science Foundation “Cross-layer Design for Streaming Video in Multihop Wireless Mesh Networks” 2008-11.
- [47] P. Mohapatra (PI), \$20,000, Intel Corporation “Diversity Research Program” 2008-09.
- [46] P. Mohapatra (Co-PI), \$65,000, Intel Corporation, “WiMO: Wireless Management Overlays” 2007-08 (PI: C. N. Chuah).
- [45] P. Mohapatra (Co-PI), \$65,000, Intel Corporation, “Scalable Enterprise Mesh Networks,” 2007-08 (PI: X. Liu).
- [44] P. Mohapatra (PI), \$114,440, UC MICRO, “Security and Manageability of Networks” 2007-08 (Co-PIs: Felix Wu, Kwan-liu Ma, Ben Yoo, Karl Levitt).
- [43] P. Mohapatra (PI), \$93,412, UC MICRO, “Cross-Layer Techniques for Resource Management in Wireless Mesh networks” 2007-08 (Co-PIs: Xin Liu, Chen-nee Chuah).
- [42] P. Mohapatra (PI), \$12000, Intel Corporation, “CFIT Diversity Program” 2007-08.
- [41] P. Mohapatra (PI), \$290,000, National Science Foundation, “Cooperative Security Mechanisms for DNS” 2007-10.
- [40] P. Mohapatra (PI), \$280,000, National Science Foundation, “QuRiNet: A Wide-Area Outdoor Mesh Test-bed” 2007-11 (Co-PIs: X. Liu, V. Boucher).
- [39] P. Mohapatra (PI), \$50,000, Intel Corporation, “Co-operative DNS Security” 2007-08.
- [38] P. Mohapatra (Co-PI), \$60,000, Intel Corporation, “Multicore Equipment Donation” (PI: Zhendong Su), 2007-08.

- [37] P. Mohapatra (PI), \$6,250,000, Department of Defense (Army Research Office), "ARSENAL: A Cross-Layer Architecture for Secure Resilient Tactical Mobile Ad Hoc Networks," 2006-07 (Co-PIs: K. Levitt, F. Wu, S. Krishnamurthy, M. Faloutsos, L. Swindlehurst, M. Jensen, S. Kasera, T. LaPorta, G. Cao, P. Krishnamurthy, D. Tipper, J. J. Garcia-Luna-Aceves), 2007-2012.
- [36] P. Mohapatra (PI), \$25,000, Hewlett Packard Company, "Video over Wireless Mesh Networks," 2007-08.
- [35] P. Mohapatra (Co-PI), \$70,000, Intel Corporation, "Management of Wireless Mesh Networks" 2006-07 (PI: C. N. Chuah).
- [34] P. Mohapatra (Co-PI), \$65,000, Intel Corporation, "Scalable Enterprise Mesh Networks," 2006-07 (PI: X. Liu).
- [33] P. Mohapatra (PI), \$112,000, UC MICRO, "Dependable Security for Large-Scale Networks and Systems," 2006-07 (Co-PIs: K. Levitt, F. Wu).
- [32] P. Mohapatra (PI), \$150,000, Intel Corporation, "Trusted Autonomics," 2006-07 (Co-PI: K. Levitt).
- [31] P. Mohapatra (PI), \$56,000, UC MICRO, "Resource Management in Wireless Mesh Networks," 2006-07 (Co-PI: C. N. Chuah).
- [30] P. Mohapatra (Co-PI), \$50,000, Intel Corporation, "Computer Engineering Education Laboratories with Wireless Networking Extensions," 2006-07 (with C. N. Chuah).
- [29] P. Mohapatra (PI), \$40,000, Hewlett Packard Corporation, "QoS in Wireless Mesh Networks," 2005-2006.
- [28] P. Mohapatra (PI), \$70,000, Intel Corporation, "Wireless Management Overlays," 2005-2006 (with C. N. Chuah).
- [27] P. Mohapatra (Co-PI), \$150,000, Intel Corporation, "Trusted Autonomics," 2005-2006 (with K. Levitt, H. Chen, Z. Su).
- [26] P. Mohapatra, \$120,000, Hewlett Packard Corporation, "Mobile Ad Hoc Networking Testbed," 2004-2006 (\$110K equipment + \$10,500 cash).
- [25] P. Mohapatra and G. Manimaran, \$360,000, National Science Foundation, "DiffServ-Aware Multicasting," 2003-2006.
- [24] P. Mohapatra, \$200,000, National Science Foundation (subcontract from UCLA), "Scalable Testbed for Next Generation Mobile Wireless Networking Technologies," 2003-2006.
- [23] P. Mohapatra, \$125,000, Hewlett Packard Corporation, "Applied Mobile Technology Solutions," 2003-2004 (\$25K cash + \$100K equipment).
- [22] P. Mohapatra and L. N. Bhuyan, \$441,645, National Science Foundation, "Scalable Software Systems for Large Internet Servers," 2003-2007.

- [21] P. Mohapatra, Hewlett Packard Corporation, "Research on Mobile Ad Hoc Networks," \$82,400, 2002-2004.
- [20] P. Mohapatra, Faculty Research Grant Program, UC Davis, \$7,850, "Constraint-Based Routing in Mobile Ad Hoc Networks," 2002-2003.
- [19] P. Mohapatra and D. Ghosal, Hewlett Packard Corporation, Mobile Technology Solutions Initiative Grant, (~\$200K in wireless equipments), 2002.
- [18] P. Mohapatra, Intel Corporation, \$100,900 (FMV), Equipment Donation, 2002.
- [17] P. Mohapatra, National Science Foundation, \$175,270, "Efficient Marking Techniques for Differentiated services in the Internet," 2001 – 2004.
- [16] P. Mohapatra, \$40,000, Intel Corporation, "E-commerce Traffic Characterization and its Impact on Internet Servers," 2000 – 2002.
- [15] P. Mohapatra, National Science Foundation, \$162,842, "Service Differentiation and Overload Control in Web Servers," July 2000 – June 2003.
- [14] P. Mohapatra, EMC Corporation, \$35,000, "Distributed File Systems," August 2000 – July 2002.
- [13] P. Mohapatra, Panasonic Technologies, \$26,000, "Multicasting Support in Differentiated Services," August 2000 – December 2001.
- [12] P. Mohapatra, EMC Corporation, \$43,500, "Research Issues on Multimedia Storage Systems," August 1998 – July 2000.
- [11] P. Mohapatra, National Science Foundation, \$97,447, "An Integrated Processor Management Scheme for Parallel Computers," September 1996 - August 2000.
- [10] P. Mohapatra, National Science Foundation, \$162,486, "Hardware Multicast Routing Techniques in Scaleable Parallel Computers," June 1996 - May 2000.
- [9] P. Mohapatra (PI), Carver Trust Grant, \$20,000, "Retrieval of Continuous Media Objects from WWW Servers," May 1998 – July 1999.
- [8] P. Mohapatra, EMC Corporation, \$35,000, "Research on Data Access in Real-Time Operating System for Network Attached Storage Devices," June 1997 - July 1998, (In addition, equipment worth \$200,000 was provided by the company).
- [7] P. Mohapatra (PI), S. Sapatnekar, L. F. Chao, S. Tridandapani, \$36,000, National Science Foundation, (+\$36,000 from ISU), "CISE Research Instrumentation: High Performance Computing and Applications Laboratory," January, 1997 - December, 1997.
- [6] P. Mohapatra, Rockwell Collins, Inc., \$8532, "Avionics System Design Database," Sept. 1997 – Dec. 1997.

- [5] P. Mohapatra, National Science Foundation, \$10,000, Research Experience for Undergraduates, August 1996 - July 1998.
- [4] P. Mohapatra, University Research Grant, \$12000, "Design and Analysis of High-Performance High-Reliable Disk Arrays," June 1996 - May 1997.
- [3] P. Mohapatra (Mentor), National Science Foundation, \$1000/year, Research Career for Minority Scholars Program, August 1994 - July 1996.
- [2] P. Mohapatra (PI) and J. Davidson, Carver Trust Grant, \$15,000, "Analysis of an Integrated Measure of Performance and Reliability of Multiprocessor Systems," May 1994 - July 1995.
- [1] P. Mohapatra (Co-PI), Silicon Graphics Inc., \$381,890, Equipment for Instructional Development, 1995.

PATENTS:

- [1] US Patent Number: 6,466,978: *Multimedia File Systems Using File Managers Located on Clients for Managing Network Attached Storage Devices*, (With S. Mukherjee and I. Kamel), October 15, 2002.

TECHNICAL PUBLICATIONS

Books and Book Chapters

- [5] A. Gupta, C. Gui, and P. Mohapatra, *Mobile Target Tracking Using Sensor Networks*, Chapter 7 in *Wireless Ad hoc and Sensor Networks*, John Wiley, 2006.
- [4] P. Mohapatra and S. Krishnamurthy (Editors), *Ad hoc Networks: Technologies and Protocols*, Springer Publishers, 2004 (ISBN: 0-387-22689-3).
- [3] P. Mohapatra, J. Li, and C. Gui, *Multicasting in Ad hoc Networks*, Chapter 4 in *Ad hoc Networks: Technologies and Protocols*, Springer Publishers, 2004.
- [2] P. Mohapatra, H. Thantry, and K. Kant, *Bus Traffic Characterization of SPECweb96 Benchmark*, Chapter 4 in *Workload Characterization for Computer System Design*, Kluwer Academic Publishers, 2000.
- [1] C. R. Das and P. Mohapatra, *Dependability Modeling of Parallel and Distributed Computers*, Chapter in *Parallel Computing: Paradigms and Applications*, International Thompson Computer Press, 1996.

Journal Papers

- [62] K. Govindan and P. Mohapatra, "Trust Computations and Trust Dynamics in Mobile Ad Hoc Networks," *IEEE Communications Surveys and Tutorials*, To appear.

- [61] K. Tan, D. Wu, A. Chan, and P. Mohapatra, "Comparing Simulation Tools and Experimental Testbeds for Wireless Mesh Networks," *Pervasive and Mobile Computing Journal*, To appear.
- [60] P. Djukic and P. Mohapatra, "Soft-TDMAC: A Software-based 802.11 Overlay TDMA MAC with Microsecond Synchronization," *IEEE Transactions on Mobile Computing*, To appear.
- [59] W. Wang, X. Liu, J. Vicente, and P. Mohapatra, "Integration Gain of Heterogeneous WiFi/WiMax Networks," *IEEE Transactions on Mobile Computing*, To appear.
- [58] D. Wu, D. Gupta, and P. Mohapatra, "QuRiNet: A Wide-Area Wireless Mesh Testbed for Research and Experimental Evaluations," *Ad Hoc Networks*, To appear.
- [57] L. Yuan, C. N. Chuah, and P. Mohapatra, "ProgME: Towards Programmable Network Measurements," *IEEE/ACM Transactions on Networking*, Vol. 19, No. 1., pp. 115-128, Feb. 2011.
- [56] M. Huynh, P. Mohapatra, S. Goose, and R. Liao, "Rapid Ring Recovery: Sub-millisecond Decentralized Recovery for Ethernet Ring," *IEEE Transactions on Computers*, To appear.
- [55] A. Gupta, D. Ghosh, and P. Mohapatra, "Scheduling Prioritized Services in Multihop OFDMA Networks," *IEEE/ACM Transactions on Networking*, vol. 18, No. 6, pp. 1780-1792, December 2010.
- [54] K. Zeng, K. Govindan, and P. Mohapatra, "Non-Cryptographic Authentication and Identification in Wireless Networks," *IEEE Wireless Communications*, Vol. 17, Issue 5, pp. 56-62, October 2010.
- [53] M. Huynh, S. Goose, and P. Mohapatra, "Resilience Technologies in Ethernet," *Computer Networks*, Vol. 54, Issue 1, pp. 57-78, Jan. 2010.
- [52] D. Gupta, D. Wu, P. Mohapatra, and C. N. Chuah, "A Study of Overheads and Accuracy for Efficient Monitoring of Wireless Mesh Networks," *Journal of Pervasive and Mobile Computing*, pp. 93-111, Vol. 6, Issue 1, Feb. 2010.
- [51] A. Sahoo, K. Kant, and P. Mohapatra, "BGP Convergence Delay after Multiple Simultaneous Router Failures: Characterization and Solutions," *Computer Communications*, Vol. 32, pp. 1207-1218, May, 2009.
- [50] J. Li and P. Mohapatra, "Adaptive Per-Hop Differentiation for End-to-End Delay Assurance in Multihop Wireless Networks," *Ad Hoc Networks*, Vol. 7, pp. 1169-1182, 2009.
- [49] M. Huynh, S. Goose, and P. Mohapatra, "Spanning Tree Elevation Protocol," *Computer Communications*, vol. 32, Issue 4, pp. 750-765, March 2009.
- [48] D.S. Kim, D. H. Choi, and P. Mohapatra, "Real-Time Scheduling Method for Networked Discrete Control Systems," *Control engineering Practice*, vol. 17, No. 5, pp. 564-570, 2009.

- [47] D. Ghosh, A. Gupta, and P. Mohapatra, "Scheduling in Multihop WiMAX Networks," *Mobile Computing and Communications Review (MC2R)*, Invited Paper, Vol. 12, No. 2, April 2008.
- [46] H. Yu, P. Mohapatra, and X. Liu, "Channel Assignment and Link Scheduling in Multi-channel Multi-radio Wireless Mesh Networks," *ACM Mobile Networks and Applications (MONET)*, vol. 13, pp. 169-185, April 2008.
- [45] M. Huynh and P. Mohapatra, "Metropolitan Ethernet Network: A Move from LAN to MAN," *Computer Networks*, vol. 51, pp. 4867-4894, Dec. 2007.
- [44] Z. Li, L. Yuan, P. Mohapatra, and C. N. Chuah "On the Analysis of Overlay Failure Detection and Recovery," *Computer Networks*, vol. 51, Issue 13, pp. 3828-3843, Sept. 2007.
- [43] A. Gupta and P. Mohapatra, "Ultra Wide Band Medium Access Control Schemes," *Computer Networks*, vol. 51, pp. 2976-2993, August 2007.
- [42] C. Gui and P. Mohapatra, "A Framework for Self-Healing and Optimizing Routing Techniques for Mobile Ad Hoc Networks," *ACM/Springer Wireless Networks (WINET)*, pp. 29-46, Vol. 14, Feb. 2008.
- [41] X. Liu and P. Mohapatra, "On the Deployment of Data Backhaul Nodes for Wireless Sensor Networks," *IEEE Transactions on Wireless Communications*, pp. 1426-1436, Vol. 6, No. 4, April 2007.
- [40] J. Li and P. Mohapatra, "Analytical Modeling and Mitigation Techniques for the Energy Hole Problems in Sensor Networks," *Pervasive and Mobile Computing Journal*, vol. 3, Issue 3, pp. 233-254, June 2007.
- [39] K. Kredo and P. Mohapatra, "Medium Access Control in Wireless Sensor Networks," *Computer Networks*, Vol. 51, pp. 961-994, March 2007.
- [38] L. Zhi and P. Mohapatra, "On the Investigation of Overlay Service Topologies," *Computer Networks*, Vol. 51, Issue 1, pp. 54-68, Jan. 2007.
- [37] J. Li and P. Mohapatra, "LAKER: Learning from Past Actions to Guide Future Behaviors in Ad Hoc Routing," *Wireless Communications and Mobile Computing (WCMC)*, Vol. 7, pp. 495-511, 2007.
- [36] C. Gui and P. Mohapatra, "Overlay Multicast for MANETs Using Dynamic Virtual Mesh," *ACM/Springer Wireless Networks (WINET)*, pp. 77-91, Vol. 13, January 2007.
- [35] H. Chen and P. Mohapatra, "A Context-Aware HTML/XML Document Transmission Process for Mobile Wireless Clients," *World Wide Web Journal*, pp. 439-461, December 2005.
- [34] C. Gui and P. Mohapatra, "Hierarchical Multicasting Techniques and Scalability in Mobile Ad Hoc Networks" *Ad Hoc Networks Journal*, pp. 586-606, Sept. 2006.

- [33] J. Li and P. Mohapatra, "PANDA: A Novel Mechanism for Flooding Based Route Discovery in Ad Hoc Networks" ACM/Springer Wireless Networks (WINET), vol. 12, No. 6, pp. 771-787, Dec. 2006.
- [32] H. Chen and P. Mohapatra, "Using Service Brokers for Accessing Backend Servers for Web Applications," Journal of Networks and Computer Applications, Vol. 28, No. 1, pp. 57-74, Jan. 2005.
- [31] Z. Li and P. Mohapatra, "QoS-Aware Multicasting in DiffServ Domains," ACM Sigcomm Computer Communications Review, Vol. 34, No. 5, pp. 47-58, October 2004.
- [30] B. Yang and P. Mohapatra, "Diffserv-Aware Multicasting," Journal of High-Speed Networks, vol. 13, No. 1, pp. 37-57, Aug 2004.
- [29] P. Mohapatra, C. Gui, and L. Jian, "Group Communications in Mobile Ad Hoc Networks," Special Issue on Ad Hoc Networks, IEEE Computer, pp. 52-60, February 2004.
- [28] Z. Li and P. Mohapatra, QRON: QoS-Aware Routing in Overlay Networks," IEEE Journal of Selected Areas in Communications, Special Issue on Service Overlay Networks, vol. 22, No. 1, pp. 29-40, January 2004.
- [27] B. Yang and P. Mohapatra, "Multicasting in MPLS Domains," Computer Communications Journal, Vol. 27, pp. 162-170, February 2004.
- [26] P. Mohapatra, J. Li, and C. Gui, "QoS in Mobile Ad hoc Networks," Special Issue on QoS in Next-Generation Wireless Multimedia Communications Systems in IEEE Wireless Communications, pp. 44-53, June 2003.
- [25] H. Chen and P. Mohapatra, "Overload Control in QoS-Aware Web Servers," Computer Networks, vol. 42/1, pp. 119-133, 2003.
- [24] X. Chen, H. Chen, and P. Mohapatra, "ACES: An Admission Control Scheme for QoS-Aware Web Servers," Computer Communications Journal, pp. 1581-1593, August 2003.
- [23] Z. Li and P. Mohapatra, "QMBF: A QoS-Aware Multicast Routing Protocol," Computer Communications Journal, vol. 26/6, pp. 611-621, 2003.
- [22] U. Vallamsetty, K. Kant, and P. Mohapatra, "Characterization of E-Commerce Server Workload," Special Issue of the Electronic Commerce Research Journal, pp. 167-192, Vol. 3, January/April 2003.
- [21] X. Chen and P. Mohapatra, "Performance Evaluation of Service Differentiating Internet Servers," IEEE Transactions of Computers, pp. 1368-1375, November 2002.
- [20] P. Mohapatra and H. Chen, "WebGraph: A Framework for Managing Dynamic Content in the Web," IEEE Journal of Selected Areas in Communications, vol. 20, No. 7, pp. 1414-1425, September 2002.

- [19] F. Wang, P. Mohapatra, S. Mukherjee, and D. Bushmitch, "An Efficient Bandwidth Management Scheme for Real-Time Internet Applications," *Computer Communications Journal*, vol. 25/17, pp. 1596-1605, September 2002.
- [18] F. Wang and P. Mohapatra, "Using Differentiated Services to Support Internet Telephony," *Computer Communications Journal*, pp. 1846-1854, Dec. 2001.
- [17] K. Kant and P. Mohapatra, "Current Research Trends in Internet Servers," *ACM Performance Evaluation Review*, pp. 5-7, September 2001.
- [16] F. Wang, P. Mohapatra, S. Mukherjee, and D. Bushmitch "A Random Early Demotion and Promotion Marker for Assured Services in the Internet," Special Issue on the QoS in the Internet, *IEEE Journal of Selected Areas in Communications*, pp. 2640-2650, Dec. 2000.
- [15] K. Kant and P. Mohapatra, "Scalable Internet Servers: Issues and Challenges," *ACM Performance Evaluation Review*, September 2000.
- [14] V. Varavithya and P. Mohapatra, "Tree-Based Multicasting in Multistage Interconnection Networks," *IEEE Trans. on Parallel and Distributed Systems*, pp. 1159-1178, Nov. 1999.
- [13] X. Jiang and P. Mohapatra, "Efficient Admission Control Schemes for Multimedia Storage Servers," *ACM Multimedia Systems*, Vol. 7, pp. 294-304, 1999.
- [12] P. Mohapatra, "Wormhole Routing Techniques in Multicomputer Systems," *ACM Computing Surveys*, pp. 374-410, September 1998.
- [11] C. Chang, and P. Mohapatra, "An Efficient Method for Computing Submesh Reliability in Two Dimensional Meshes," *IEEE Trans. on Parallel and Distributed Systems*, pp. 1115-1124, November 1998.
- [10] C. Chang and P. Mohapatra, "Performance Improvement of Allocation Schemes for Mesh-Connected Computers," *Journal of Parallel and Distributed Computing*, pp. 40-68, v.52, No. 1, July 1998.
- [9] P. Mohapatra, "Dynamic Real-Time Scheduling on Hypercubes," *Journal of Parallel and Distributed Computing*, pp. 91-100, October 1997.
- [8] J. Upadhyay, V. Varavithya, and P. Mohapatra, "A Traffic-Balanced Adaptive Wormhole Routing Scheme for Two Dimensional Meshes," *IEEE Trans. on Computers*, pp. 190-197, February 1997.
- [7] P. Mohapatra, "Processor Allocation Using Partitioning in Mesh Connected Parallel Computers," *Journal of Parallel and Distributed Computing*, pp. 181-190, vol. 39, No. 2, December 1996.
- [6] P. Mohapatra, C. R. Das, and C. Yu, "Allocation and Mapping Based Reliability Analysis of Multistage Interconnection Networks," *IEEE Transactions on Computers*, pp. 600-607, May 1996.

- [5] P. Mohapatra, and C. R. Das, "A Performance Model for Finite-Buffered Multistage Interconnection Networks," *IEEE Transactions on Parallel and Distributed Systems*, pp. 1825, January 1996.
- [4] P. Mohapatra, and C. R. Das, "On Dependability Evaluation of Mesh Connected Multicomputers," *IEEE Transactions on Computers*, pp. 1073-1084, September 1995.
- [3] P. Mohapatra, C. Yu, and C. R. Das, "A Lazy Scheduling Scheme for Hypercube Computers," *Journal of Parallel and Distributed Computing*, 27, pp. 26-37, May 1995.
- [2] P. Mohapatra, C. R. Das, and T. Y. Feng, "Performance Analysis of Cluster-Based Multiprocessors," *IEEE Transactions on Computers*, pp. 109-114, January 1994.
- [1] C. R. Das, P. Mohapatra, L. Tien, and L. N. Bhuyan, "An Availability Model for MIN-Based Multiprocessors," *IEEE Transactions on Parallel and Distributed Systems*, pp. 1118-1129, October 1993.

Conference Papers (AR: Acceptance Rate; Listed only when less than 25% and known)

- [131] X. Wang, K. Govindan, and P. Mohapatra, "Exploiting Mobility for Trust Propagation in Mobile Ad Hoc Networks," International Conference on Computer Communications and Networks (ICCCN), 2011.
- [130] C.T. Deccio, J. Sedayao, K. Kant, and P. Mohapatra, "Quantifying and Improving DNSSEC Availability," International Conference on Computer Communications and Networks (ICCCN), 2011.
- [129] X. Wang, K. Govindan, and P. Mohapatra, "Collusion-Resilient Quality of Information Evaluation Based on Information Provenance," IEEE SECON 2011.
- [128] N. Cheng, K. Govindan, and P. Mohapatra, "Rendezvous Based Trust Propagation to Enhance Distributed Network Security," IEEE International Workshop on Security in Computers, Networking, and Communications, 2011.
- [127] A Bar-Noy, G. Cirincione, R. Govindan, S. Krishnamurthy, T. La Porta, P. Mohapatra, M. Neely, and A. Yener, "Quality of Information Aware Networking for Tactical Military Networks," International Workshop on Information Quality and Quality of Service for Pervasive Computing, 2011.
- [126] X. Cheng and P. Mohapatra, "Retransmission-Aware Queuing and Routing for Video Streaming in Wireless Mesh Networks," IEEE WCNC 2011.
- [125] L. Zhang, K. Zeng, and P. Mohapatra, "Opportunistic Spectrum Scheduling for Mobile Cognitive Radio Networks in White Space," IEEE WCNC 2011.
- [124] K. Zeng, K. Govindan, D. Wu, and P. Mohapatra, "Identity-Based Attack Detection in Mobile Wireless Networks," IEEE INFOCOM 2011 (AR=15.9%).
- [123] K. H. Kim, A. W. Min, D. Gupta, P. Mohapatra, and J. P. Singh, "Improving Energy-Efficiency of Wi-Fi Sensing on Smartphones," IEEE INFOCOM 2011 (AR=15.9%).

- [122] Y. Wei, K. Zeng, and P. Mohapatra, "Adaptive Wireless Channel Probing for Shared Key Generation," IEEE INFOCOM 2011 (AR=15.9%).
- [121] C. C. Chen, L. Yuan, A. Greenberg, C. N. Chuah, and P. Mohapatra, "Routing-as-a-Service (RaaS): A Framework for Tenant-Directed Route Control in Data Center," IEEE INFOCOM 2011 (AR=15.9%).
- [120] S. Chen, K. Zeng, and P. Mohapatra, "Hearing is Believing: Detecting Mobile Primary User Emulation Attack in White Space," IEEE INFOCOM Miniconference, 2011 (AR=23.5%).
- [119] L. Cai, K. Zeng, H. Chen, and P. Mohapatra, "Good Neighbor: Ad-Hoc Pairing of Nearby Wireless Devices by Multiple Antennas," Network and Distributed Systems Security Symposium (NDSS), 2011 (AR=20%).
- [118] A. Pande, J. Zambreno, and P. Mohapatra, "Joint Video Compression and Encryption Using Arithmetic Coding and Chaos," IEEE International Conference on Internet Multimedia Systems Architecture and Applications, 2010.
- [117] K. Govindan, T. Abdelzaher, and P. Mohapatra, "Trustworthy Wireless Networks: Issues and Applications," Invited Paper, International Symposium on Electronic System Design (ISED), 2010.
- [116] G. Cirincione, R. Govindan, S. Krishnamurthy, T. La Porta, and P. Mohapatra, "Impact of Security Properties on the Quality of Information in Tactical Military," MILCOM, 2010.
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Doctoral Dissertations:

- [17] Hua Yu, *Capacity Enhancement and Reliability of Wireless Mesh Networks*, 2010.
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(Winner of Best Graduate Researcher Award, Best Dissertation Award)
- [6] Zhi Li, *Resiliency and QoS Support in Multicasting and Overlay Networks*, 2005.
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(Recipient of Graduate Research Excellence Award)
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Wireless Communications and Networking Conference (WCNC), 2003

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Workshop on Trusted Internet Computing (with HiPC), 2002

International World Wide Web Conference (Poster Track), 2002

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