Prasant Mohapatra
Provost and Executive Vice President
Professor, Department of Computer Science
University of South Florida
Tampa, FL 33620

E.mail: pmohapatra@usf.edu, pmohapatra@gmail.com
Mobile:(530) 574-6372, URL: https://pmlab.cse.usf.edu

RESEARCH AND TEACHING INTERESTS

Computer Networks, Wireless Networks and Mobile Systems, Sensor and IoT Networks, Wireless Security, Cyber Security, Machine Learning, and Artificial Intelligence.

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

2023 --	Provost and Executive Vice President, University of South Florida, Tampa, FL
2023 --	Professor, Computer Science and Engineering Department, University of South Florida, Tampa, FL
2018 -- 2023	Vice Chancellor for Research, University of California, Davis, CA
2019 -- 2023	Distinguished Professor, Computer Science Department, University of California, Davis, CA
2003 -- 2019	Professor, Computer Science Department, University of California, Davis, CA
2016 -- 2018	Dean of Graduate Studies, and Vice-Provost of Graduate Education University of California, Davis, CA
2014 -- 2016	Associate Chancellor, University of California, Davis, CA
2013 -- 2014	Interim Vice-Provost and CIO, University of California, Davis, CA
2009 -- 2013	Tim Bucher Family Endowed Chair, University of California, Davis, CA
2007 -- 2013	Chair, Computer Science Department,

	University of California, Davis, CA
2012 – 2013	World Class University (WCU) Visiting Professor, KAIST, Korea
Jan – Dec. 2012	Visiting Scientist, NICTA, Australia
2006 - 2008	Director, Center for Future Information Technology (CFIT)
Jun-Aug. 2007-09	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

HONORS AND AWARDS

- Member of the Academy of Science, Engineering and Medicine of Florida, 2024
- Fellow of AAAS, 2013
- Fellow of the IEEE, 2010
- Distinguished Professor of UC Davis, 2019
- Certificate of Recognition for Research Response to Community Crisis, APLU, 2021.
- Distinguished Alumnus Award, National Institute of Technology, Rourkela, India, 2015
- Biju Patnaik Lifetime Scientific Excellence Award, Government of Odisha, India, 2015
- Outstanding Engineering Alumni Award, Pennsylvania State University, 2008
- Outstanding Engineering Faculty Award, College of Engineering, UC Davis, 2011.
- HP Labs Innovation Award, 2011, 2012, 2013
- Editor-in-Chief, IEEE Transactions on Mobile Computing, 2014-17

- A paper identified as Google Scholar Classic Paper: Articles That Have Stood the Test of Time (IEEE Symposium on Security and Privacy, 2006).
- Paper published in ICCD-2000 was selected among the four most influential work during the first 30 years of ICCD conference (A Retrospective presented at the 30th ICCD-2012)
- Best Paper Awards:
    - IEEE CNS, 2014 (Runner-up)
    - IFIP Networking, 2014
    - ACM BodyNets, 2013
    - IEEE ICCCN, 2013
    - International Symposium on Wireless Personal Multimedia Communications, 2011.
    - IEEE Wireless Mobile Computing (WiMob) Conference, 2009
- Best Demo Award: ACM HotMobile, 2019.
- World Class University (WCU) Visiting Professor, KAIST, Korea, 2012-13
- Mentor, Award for Excellence in Postdoctoral Research, 2015 (Dr. Parth Pathak).
- Mentor, Award for Excellence in Postdoctoral Research, 2012 (Dr. Amit Pande).
- Mentor, Award for Excellence in Postdoctoral Research, 2011 (Dr. Kai Zeng).
- Advisor, Best Graduate Researcher Award, Computer Science Department, UC Davis, 2013 (Student: Xinlei Wang)
- Advisor, Best Graduate Researcher Award, Computer Science Department, UC Davis, 2012 (Student: An Chan)
- Advisor, Best Doctoral Dissertation Award from the College of Engineering, 2007 (Student: Chao Gui)
- Advisor, Best Graduate Researcher Award, Computer Science Department, UC Davis, 2006 (Student: Chao Gui)
- Outstanding Graduate Research Award, Pennsylvania State University, 1993

BOARD MEMBERSHIPS AND ADVISORY COMMITTEE

CITRIS Advisory Board, UC Berkeley, CA, USA (2020 - 2023)
Bay Area Science and Innovation Consortium (BASIC), CA, USA (2018 - 2023)
Joint BioEnergy Institute (JBEI), CA, USA (2018 - 2023)
California Mobility Center, CA, USA (2019 - 2023)
SRM University, AP, India (2018 -)
Sai International School, Bhubaneswar, India (2017 -)
National Commission on Innovation & Competitiveness Frontiers, USA (2019 - 2023)

CONSULTING ACTIVITIES AND INDUSTRIAL AFFILIATIONS

January 2021 -	Advisory Board Member, Spearix, Inc.
June 2015 -	Advisory Board Member, Seceon Networks, Inc.
Jan. 2010 –	Founder, Airpackets, LLC
Sept. 2009 - Apr. 2014	Co-Founder, Mapiz, Inc
Aug. 2011 – Dec. 2011	Consultant, AT&T Labs
Jul. 2010 – Dec. 2010	Consultant, AT&T Labs
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

INDUSTRIAL SPONSORS AND COLLABORATORS (CURRENT AND PAST)

ARM Research
AT&T
Bosch
EMC Corporation
Hewlett Packard
Futurewei Corporation
Intel Corporation
NEC Corporation
Panasonic Corporation
Rockwell International
Siemens
Raytheon-BBN

GRANTS AND CONTRACTS

[75] P. Mohapatra (PI), $414,000, Army Research Office, "Millimeter-wave Networking in Transient Topologies," 2022-24.

[74] P. Mohapatra (Co-PI), $360,000, Department of Energy, "Cyber Innovation to Secure Manufacturing," 2020-22.

[73] P. Mohapatra (PI), $19,000, Lawrence Berkeley National Laboratory, "Privacy Preserving Analysis of COVID-19 Patient Data," 2019-20.

[72] P. Mohapatra (PI), $80,000, ARM Limited, "IoT Device Anomaly Detection via Networking Behavior Fingerprinting," 2019-20.

[71] P. Mohapatra (PI), $1,195,000, Andrew W. Mellon Foundation, "Alliance for Multi-campus Inclusive Graduate Admissions," 2018-22.

[70] P. Mohapatra (PI), $18,000, Robert Bosch LLC, "Wireless Sensing and Vital Signs Monitoring," 2017-18.

[69] P. Mohapatra (PI), $1,075,000, National Science Foundation, "California LSAMP Bridge to Doctorate Activity," 2016-18.

[68] P. Mohapatra (Co-PI), $150,000, Andrew W. Mellon Foundation, "Transforming Graduate Admissions to Increase Graduate Student Diversity," (Co-PI: J. Moreno), 2015-17.

[67] P. Mohapatra (PI), $200,000, Army Research Office, "Millimeter Wave Human Tracking and Activity Monitoring," 2016-17.

[66] P. Mohapatra (PI), $575,000, Army Research Office, "Advanced Security Games for Cyber-Physical Systems," 2015-19. (Co-PI: Ness Shroff).

[65] P. Mohapatra (PI), $75,000, National Science Foundation, “From Computer Networks to Food Networks,” 2014-15.

[64] P. Mohapatra (Co-PI), $45M, Army Research Laboratory, Cybersecurity Research Alliance, “Models for Enabling Continuous Reconfigurability of Secure Missions,” 2013-22. (PI: P. MacDaniel, Co-PIs: K. Levitt, Z. Su, T. LaPorta, T. Jaeger, S. Krishnamurthy, H. Madhyastha, I. Neamtiu, J. Camp, B. Bertenthal, D. Henshel, L. Cranor, L. Bauer, N. Christin, C. Gonzalez)

[63] P. Mohapatra (Co-PI), $992,746, National Science Foundation, “CC-NIE Integration: Improved Infrastructure for Data Movement and Monitoring,” 2012-14. (PI: M. Bishop)

[62] P. Mohapatra (Co-PI), $500,000, National Science Foundation, “Towards a User-Centric Battery Management System for Smartphones,” 2013-16. (Co-PI: Srikanth Krishnamurthy)

[61] P. Mohapatra (PI), $75,000, Hewlett Packard Company, “Location Based Communications and Services,” 2013-14.

[60] P. Mohapatra (PI), $18,500, Huawei Technologies, “Performance of Smartphone Applications,” 2012-13.

[59] P. Mohapatra (PI), $150,000, National Science Foundation, “Deep Network Inspection,” 2012-14.

[58] P. Mohapatra (Co-PI), $860,000, RISE, UC Davis, “Wireless Health and Wellness Research Center,” 2012-15, (Co-PIs: J. Han, T. Nesbitt, H. Young, and L. Berglund).

[57] P. Mohapatra (PI), $95,000, Hewlett Packard Company, “Location Based Communications and Services,” 2012-13.

[56] P. Mohapatra (PI), $119,500, US Army Research Laboratory, “Trusted Networks,” 2011-12.

[55] P. Mohapatra (PI), $195,000, US Army Research Office, “Mobility and Security in Wireless Networks,” 2011-12.

[54] P. Mohapatra (PI), $125,000, National Science Foundation, “CIFellows Project,” 2011-12.

[53] P. Mohapatra (PI), $75,000, Hewlett Packard Company, “Location Based Communications and Services,” 2011-12.

[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. Falutsos, L. Swindlehurst, M. Jensen, S. Kasera, T. La Porta, 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:

[11] US Patent Number 11,822,651: *Adversarial Resilient Malware Detector Randomization and Devices,* (With H. Homayoun, H. Wang, S. Rafatirad), November 2023.

[10] US Patent Number 10,347,249: *Energy-Efficient, Accelerometer-Based Hot-word Detection to Launch a Voice-Control System,* (With L. Zhang, M. Wu, L. Xiran, P. Pathak), July 2019.

[9] US Patent Number 10,045,717: *WiFi-Based Person-Identification Technique for use in Smartspaces,* (With P. Pathak and Y. Zeng), August 2018.

[8] US Patent Number 9,813,907: *Sensor-Assisted User Authentication,* (With S. Chen, A. Pande), November 2017.

[7] US Patent Number: 9,756,460: *Adaptive Location Perturbation,* (With J. Zhu, K. H. Kim), September 2017.

[6] US Patent Number: 9,733,088: *Signal Space Based Navigation,* (With S. Sen, K. H. Kim, J. Zhu), August 2017.

[5] US Patent Number: 9,408,076: *Sensor-Assisted Biometric Authentication for Smartphones,* (With S. Chen, A. Pande), August 2016.

[4] US Patent Number: 8,965,398: *Bluetooth Beacon Based Location Determination,* (With J. Zhu, K. Zeng, K. H. Kim), February 24, 2015.

[3] WO Patent Number: 2015/048853: *Bluetooth Beacon Based Location Determination,* (With A. Seniviratne, D. Kaafar, S. Chawla), September 4, 2015.

[2] WO Patent Number: 2014/183171, EP 2997489A1: *Method and Device for Efficient Mobile Data Transmission,* (With D. Kaafar, A, Seneviratne), November 20, 2014.

[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

[9] Z. Fang and P. Mohapatra, *Vulnerabilities in IoT Systems*, Book Chapter in *IoT for Defense and National Security,* John Wiley & Sons, 2023.

[8] D. Mishra, R. Buyya, P. Mohapatra, and S. Patnaik, *Intelligent and Cloud Computing,* Springer Nature, 2021.

[7] R. Sivaraj and P. Mohapatra, *Future Radio Access, Wi-Fi-LTE, LTE-Advanced: The Path to 5G,* Chapter 1 in *Fiber-Wireless Convergence in Next-Generation Communication Networks,* Springer 2017.

[6] C. Vallati, V. Omwando, and P. Mohapatra, *Experimental Work versus Simulations in the Study of Mobile Ad Hoc Networks,* Chapter 6 in *Mobile Ad hoc Networks: The Cutting Edge Directions,* Willey-IEEE Press, pp. 191-238, 2013.

[5] A. Gupta, C. Gui, and P. Mohapatra, *Mobile Target Tracking Using Sensor Networks,* Chapter 7 in *Wireless Ad hoc and Sensor Networks,* John Willey, 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

[134] M. Haroon, M. Wojcieszak, A. Chhabra, X. Liu, P. Mohapatra, Z. Shafiq, "Auditing YouTube's Recommendation System for Ideologically Congenial, Extreme, and Problematic Recommendations," Proceedings of the National Academy of Sciences, Vol. 120, No. 50, 2023.

[133] A. Chhabra, K. Patwari, C. Kuntala, D. K. Sharma, and P. Mohapatra, "Towards Fair Video Summarization," Transactions on Machine Learning Research, 2023.

[132] C. Lyu, A. Pande, Y. Zhang, D. Gu, and P. Mohapatra, "Enabling Fast and Privacy-Preserving Broadcast Authentication with Efficient Revocation for Inter-Vehicle Connections," IEEE Transactions on Mobile Computing, 2023.

[131] G. D. Yellapu, G. Rudraraju, N. R. Sripada, B. Mamidgi, C. Jalukuru, P. Firmal, V. Yechuri, S. Varanasi, V. S. Peddireddi, D. M. Bhimarasetty, S. Kanisetti, N. Joshi, P. Mohapatra, K. Pamarthi, "Development and clinical validation of Swaasa AI platform for screening and prioritization of pulmonary TB," Vol. 13, Issue 1, Scientific Reports, Nature, 2023.

[130] S. Nanda, C. Panigrahi, B. Pati, and P. Mohapatra, "SMedia: Social Media Data Analysis for Emergency Detection and its Type Identification," International Journal of Computational Science and Engineering, 2023.

[129] H. Zhang, L. Fu, M. Zhang, P. Hu, X. Chen, P. Mohapatra, X. Liu, "Federated Learning Hyper-Parameter Tuning from A System Perspective," IEEE Internet of Things Journal, Vol. 10, Issue 16, pp. 14102-13, August 2023.

[128] Z. Fang, H. Fu, T. Gu, P. Hu, J. Song, T. Jaeger, and P. Mohapatra, "Towards System Level Security Analysis of IoT using Attack Graphs," IEEE Transactions on Mobile Computing, 2022.

[127] P. Hu, W. Li, Y. Ma, P. Santhalingam, P. Pathak, H. Li, H. Zhang, G. Zhang, X. Cheng, and P. Mohapatra, "Towards Unconstrained Vocabulary Eavesdropping with mmWave Radar using GAN," IEEE Transactions on Mobile Computing, 2022.

[126] A. Roy, K. Balasubramanian, S. Ghadimi,, and P. Mohapatra, "Stochastic Zeroth-Order Optimization under Nonstationarity and Nonconvexity," Journal of Machine Learning Research, 23(64): 1-47, 2022.

[125] H. Zhang, M. Uddin, F. Hao, S. Mukherjee, and P. Mohapatra, "MAIDE: Augmented Reality (AR)-Facilitated Mobile System for Onboarding of Internet of Things (IoT) Devices at Ease," ACM Transactions on Internet of Things, 3 (2), pp. 1-21, 2022.

[124] A. Chhabra, K. Masalkovaite, and P. Mohapatra, "An Overview of Fairness in Clustering," IEEE Access, September 2021.

[123] Y. Zou, D. Yu, P. Hu, J. Yu, X. Cheng, and P. Mohapatra, "Jamming-Resilient Message Dissemination in Wireless Networks," IEEE Transactions on Mobile Computing, August 2021.

[122] R. Paul, N. Ghosh, S. Sau, A. Chakrabarti, and P. Mohapatra, "Blockchain Based Secure Smart City Architecture using Low Resource IoTs," Computer Networks, June 2021.

[121] N. Bouacida and P. Mohapatra, "Vulnerabilities in Federated Learning," IEEE Access, April 2021.

[120] Z. Fang, H. Fu, T. Gu, Z. Qian, T. Jaeger, P. Hu, and P. Mohapatra, "A Model Checking-Based Security Analysis Framework for IoT Systems," High-Confidence Computing, Elsevier, March 2021.

[119] C. R. Panigrahi, J. L. Sarkar, B. Pati, R. Buyya, P. Mohapatra, and A. Majumdar, "Mobile Cloud Computing and Wireless Sensor Networks: A review, integration architecture, and future directions," IET Networks, 2021.

[118] J. Tang, L. Jiao, K. Zeng, H. Wen, K. Govindan, D. Wu, and P. Mohapatra, "Identity-Based Attack Detection and Classification Utilizing Reciprocal RSS Variations in Mobile Wireless Networks," IEEE Transactions on Mobile Computing, October 2020.

[117] H. Fu, P. Hu, Z. Zheng, A. Das, P. Pathak, T. Gu, S. Zhu, and P. Mohapatra, "Towards Automatic Detection of Nonfunctional Sensitive Transmissions of Mobile Applications," IEEE Transactions on Mobile Computing, Vol. 20, Issue 10, pp. 3066-80, Oct. 2021.

[116] H. Wu, Y. Zhang, J. Wang, W. Wang, J. Xian, J. Chen, X. Zou, and P. Mohapatra, "iOceanSee: A Novel Scheme for Ocean State Estimation using 3D Mobile Convolutional Neural Network," IEEE Access, pp. 153774-786, 2020.

[115] P. Hu, P. Pathak, H. Zhang, Z. Yang, and P. Mohapatra, “High Speed LED-to-Camera Communication using Color Shift Keying with Flicker Mitigation,” IEEE Transactions on Mobile Computing, Vol. 19. Issue 7, pp. 1603-17, July 2020.

[114] C. Panigrahi, J. Sarkar, M. Tiwary, B. Pati, and P. Mohapatra, “DATALET: An Approach to Manage Big Volume of Data in Cyber Foraged Environment,” Journal of Parallel and Distributed Computing, 131, pp. 14-28, 2019.

[113] H. Wu, W. Wang, J. Wang, and P. Mohapatra, “RangingNet: A Convolutional Deep Neural Network Based Ranging Model for Wireless Sensor Networks,” Computer Communications, 140, pp. 61-68, 2019.

[112] J. Wang, J. Pan, F. Esposito, P. Calyam, Z. Yang, and P. Mohapatra, “Edge Cloud Off-Loading Algorithms: Issues, Methods, and Perspectives,” ACM Computing Surveys, 52(1), Feb. 2019.

[111] H. Wu, J. Xian, X. Mei, Y. Zhang, J. Wang, J. Cao, and P. Mohapatra, “Efficient Target Detection in Maritime Search and Rescue Wireless Sensor Network using Data Fusion,” Computer Communications, vol. 136, pp. 53-62, 2019.

[110] H. Wu, X. Mei, X. Chen, J. Li, J. Wang, and P. Mohapatra, “A Novel Cooperative Localization Algorithm using Enhanced Particle Filter Technique in Maritime Search and Rescue Wireless Sensor Network,” ISA Transactions, vol. 78, pp. 39-46, 2018.

[109] H. Wu, J. Xian, J. Wang, S. Khendge, and P. Mohapatra, “Missing Data Recovery using Reconstruction in Ocean Wireless Sensor Networks,” Computer Communications, vol. 132, pp. 1-9, 2018.

[108] H. Zhang, W. Du, M. Li, K. Wu, and P. Mohapatra, “StrLight: An Imperceptible Visible Light Communication System with String Lights,” IEEE Transactions on Mobile Computing, Vol. 18, Issue 7, pp. 1674-87, July 2018.

[107] H. Zhang, W. Du, P. Zhou, M. Li, and P. Mohapatra, “An Acoustic-based Encounter Profiling System,” Vol. 17, Issue 8, pp. 1750-63, IEEE Transactions on Mobile Computing, August 2018.

[106] H. Wu, J. Wang, R. Ananta, V. Kommareddy, R. Wang, and P. Mohapatra, “Prediction-Based Opportunistic Routing for Maritime Research and Rescue Wireless Sensor Networks,” Journal of Parallel and Distributed Computing, July 2017.

[105] T. Dao, I. Singh, H. Madhyastha, S. Krishnamurthy, G. Cao, and P. Mohapatra, “TIDE: A User-Centric Tool for Identifying Energy Hungry Applications on Smartphones,” IEEE/ACM Transactions on Networking, vol. 25, Issue 3, pp. 1459-74, June 2017.

[104] Z. Yang, P. Pathak, Y. Zeng, X. Liran, and P. Mohapatra, “Vital Sign and Sleep Monitoring Using Millimeter Wave,” ACM Transactions on Sensor Networks, Volume 13 Issue 2, April 2017.

[103] A. Das, P. Pathak, C. N. Chuah, and P. Mohapatra, "Privacy-Aware Contextual Localization Using Network Traffic Analysis," Computer Networks, Vol. 118, pp. 24-36, May 2017.

[102] S. Seneviratne, A. Seneviratne, M. A. Kaafar, A. Mahanti, and P. Mohapatra, "Spam Mobile Apps: Characteristics, Detection, and in the Wild Analysis," ACM Transactions on Web, Vol. 11, Issue 1, pp. 4-33, March, 2017.

[101] X. Wang, A. Pande, J. Zhu, and P. Mohapatra, "STAMP: Enabling Privacy-Preserving Location Proofs for Mobile Users," IEEE/ACM Transactions on Networking, Vol. 24, No. 6, pp. 3276-89, December 2016.

[100] R. Jin, L. Shi, K. Zeng, A. Pande, and P. Mohapatra, "MagPairing: Pairing Smartphones in Close Proximity Using Magnetometers," IEEE Transactions on Information Forensics and Security, vol. 11, Issue 6, June 2016.

[99] A. Pande, P. Mohapatra, A. Nicorici, and J. Han, "Machine-Learning to Improve Energy Expenditure Estimation in Children with Disabilities," JMIR Rehabilitation and Assistive Technology, vol. 2, Issue 3, 2016.

[98] F. Jiang, E. Zarepour, M. Hassan, A. Seneviratne, and P. Mohapatra, "Type, Talk, or Swype: Characterizing and Comparing Energy Consumption of Mobile Input Modalities," Journal of Pervasive and Mobile Computing, pp. 57-70, Vol. 26, Feb. 2016.

[97] J. Kwak, O. Choi, S. Chong, and P. Mohapatra, "Processor-Network Speed Scaling for Energy-Delay Tradeoff in Smartphone Applications," IEEE/ACM Transactions on Networking, vol. 24, No. 3, pp. 1647-1661, June 2016.

[96] C. Lyu, D. Gu, Y. Zeng, and P. Mohapatra, "PBA: Prediction-based Authentication for Vehicle-to-Vehicle Communications," IEEE Transactions on Dependable and Secure Computing, vol. 13, Issue 1, pp. 71-83, 2016.

[95] Y. Zeng, P. Pathak, and P. Mohapatra, "A First Look at 802.11ac in Action: Energy Efficiency and Interference Characterization," Transactions on Emerging Telecommunications Technologies, Vol. 28, Issue 2, Feb. 2017.

[94] P. Pathak, X. Feng, P. Hu, and P. Mohapatra, "Visible Light Communication, Networking and Sensing," IEEE Communications Surveys & Tutorials, vol. 17, pp. 2047-77, 2015.

[93] S. Jana, A. Pande, A. Chan, and P. Mohapatra, "QoE Prediction Model for Mobile Video Telephony," Multimedia Tools and Applications, pp. 1-24, 2015.

[92] A. Pande, J. Zhu, A. Das, Y. Zeng, J. Han, and P. Mohapatra, "Using Smartphone Sensors for Improving Energy Expenditure Estimation," IEEE Journal of Translational Engineering in Health and Medicine, Vol. 3, September 2015.

[91] E. Baik, A. Pande, and P. Mohapatra, "Efficient MAC for Real-time Video Streaming over Wireless LAN," ACM Transactions on Multimedia Computing Communications and Applications (TOMM), Vol 11, Issue 4, April 2015.

[90] S. Chen, A. Pande, K. Zeng, and P. Mohapatra, "Live Video Forensics: Source Identification in Lossy Wireless Networks," IEEE Transactions on Information Forensics and Security, Vol. 10, No. 1, 2015.

[89] P. Pathak, R. Dutta, and P. Mohapatra, "On Availability-Performability Trade-off in Wireless Mesh Networks," IEEE Transactions on Mobile Computing, pp. 606-618, Vol. 14, March 2015.

[88] S. Seneviratne, A. Seneviratne, P. Mohapatra, and A. Mahanti, "Your Installed Apps Reveal Your Gender and More," Mobile Computing and Communications Review (MC2R), Vol. 18, No. 3, pp. 55-61, July 2014.

[87] C. C. Chen, P. Sun, L. Yuan, D. A. Maltz, C. N. Chuah, and P. Mohapatra, "SWIM: Switch Manager for Data Center Networks," IEEE Internet Computing. pp. 30-36, No. 4, Jul-Aug, 2014.

[86] S. Seneviratne, A. Seneviratne, P. Mohapatra, and A. Mahanti, "Predicting User Traits from a Snapshot of Apps Installed on a Smartphone," Mobile Computing and Communications Review (MC2R), Vol. 18, No. 2, pp. 1-8, April 2014.

[85] X. Wang, W. Cheng, P. Mohapatra, and T. Abdulzaher, "Enabling Reputation and Trust in Privacy-Preserving Mobile Sensing," IEEE Transactions on Mobile Computing, Vol. 13, No. 12, pp. 2777-2790, Dec. 2014.

[84] S. Chen, K. Zeng, and P. Mohapatra, "Efficient Data Capturing for Network Forensics in Cognitive Radio Networks," IEEE/ACM Transactions on Networking, Vol. 22, No. 6, pp. 1988-2000, Dec. 2014.

[83] 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 Centers," IEEE/ACM Transactions on Networking, pp. 1401-1414, October 2014.

[82] P. Congdon, P. Mohapatra, M. Farrens, and V. Akella, "Simultaneously Reducing Latency and Power Consumption in OpenFlow Switches," IEEE/ACM Transactions on Networking, pp. 1007-1020, June 2014.

[81] D. Ghosh and P. Mohapatra, "Resource Allocation Using Link State Propagation in OFDMA Femto Networks," Computer Communications, vol. 46, pp. 3-9, June 2014.

[80] A. Pande, S. Chen, P. Mohapatra, and J. Zambreno, "Hardware Architecture for Video Authentication using Sensor Pattern Noise," Transactions on Circuits and Systems for Video Technology, Vol. 24, No. 1, pp. 157-167, January 2014.

[79] S. Jana, K. Zeng, W. Cheng, and P. Mohapatra, "Trusted Collaborative Spectrum Sensing for Mobile Cognitive Radio Networks," IEEE Transactions on Information Forensics & Security, Vol. 8, No. 9, pp. 1497-1507, September 2013.

[78] A. Pande, V. Ramamurthi, and P. Mohapatra, "Quality-oriented Video delivery over LTE," Journal of Computer Science and Engineering, KIISE, vol. 7, No. 3, pp.168-176, September 2013 (Invited Paper).

[77] K. Tang, K. Kim, Y. Xin, S. Rangarajan, and P. Mohapatra, "RECOG: A Sensing-based Cognitive Radio System with Real-Time Application Support," IEEE Journal on Selected Areas in Communications, Vol. 31, No. 11, pp. 2504-16, November 2013.

[76] A. Pande, V. Ahuja, R. Sivaraj, E. Baik, and P. Mohapatra, "Video Delivery Challenges and Opportunities in 4G Networks," IEEE Multimedia, pp. 88-94, July-Sept. 2013.

[75] S. Jana, A. Pande, A. Chan, and P. Mohapatra, "Mobile Video Chat: Issues and Challenges," IEEE Communications, Vol. 51 (6), pp. 144-151, June 2013.

[74] K. Tan, S. Jana, P. H. Pathak, and P. Mohapatra, "On Insider Misbehavior Detection in Cognitive Radio Networks," IEEE Network, Vol. 27 (3), pp. 4-9, 2013.

[73] P. McDonagh, A. Pande, L. Murphy, and P. Mohapatra, "Towards Deployable Methods for Assessment of Quality for Scalable IPTV Services," IEEE Transactions on Broadcasting, vol. 59, No. 2, pp. 223-237, June 2013.

[72] L. Yuan, C. C. Chen, P. Mohapatra, and C. N. Chuah, "A Proxy View of Quality of Domain Name Service, Poisoning Attacks and Survival Strategies," ACM Transactions on Internet Technology, vol. 12, Issue 3, pp. 9/1-26, May 2013.

[71] Y. Wei, K. Zeng, P. Mohapatra, "Adaptive Wireless Channel Probing for Shared Key Generation based on PID Controller," IEEE Transactions on Mobile Computing. Vol. 12, No. 9, 2013.

[70] A. Pande, P. Mohapatra, and J. Zambreno, "Securing Multimedia Content using Joint Compression and Encryption," IEEE Multimedia, pp. 50-61, Vol. 20, No. 4, Oct-Dec 2013.

[69] S. Chen, K. Zeng, and P. Mohapatra, "Hearing is Believing: Detecting Wireless Microphone Emulation Attack in White Space," IEEE Transactions on Mobile Computing, Vol. 12, No. 3, 2013.

[68] A. Pande, J. Zambreno, and P. Mohapatra "Arithmetic Coding as a non-linear dynamical system," Communications in Nonlinear Science and Numerical Simulation, pp. 4536-43, Vol. 12, No. 12, 2012.

[67] L. Zhang, D. Gupta, and P. Mohapatra, "How Expensive are Free Smartphone Apps," Mobile Computing and Communications Review, pp. 21-32, Vol. 16, No. 3, July 2012.

[66] C.T. Deccio, J. Sedayao, K. Kant, and P. Mohapatra, "Quantifying DNS Namespace Influence," Computer Networks, Vol. 56, No. 2, pp. 780-794, 2012.

[65] K. Govindan and P. Mohapatra, "Trust Computations and Trust Dynamics in Mobile Ad Hoc Networks," IEEE Communications Surveys and Tutorials, Vol. 14, Issue 2, pp. 279-298, 2012.

[64] K. Govindan, K. Zeng, and P. Mohapatra, "Probability Density of the Received Power in Mobile Networks," IEEE Transactions on Wireless Communications, Vol. 10, Issue 11, pp. 3616-3619, 2011.

[63] D. Gupta, P. Mohapatra, and C. N. Chuah, "Seeker: A Bandwidth-based Association Control Framework for Wireless Mesh Networks," ACM/Springer Wireless Networks, Vol. 17, No. 5, pp. 1287-1304, 2011.

[62] N. Cheng, K. Govindan and P. Mohapatra, "Rendezvous-based Trust Propagation to Enhance Distributed Network Security," International Journal of Security and Networks (IJSN), No. 2/3, Vol. 6, pp. 112-122, 2011.

[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, Vol.7, Issue 4, pp. 434-448, Aug. 2011.

[60] P. Djukic and P. Mohapatra, "Soft-TDMAC: A Software-based 802.11 Overlay TDMA MAC with Microsecond Synchronization," IEEE Transactions on Mobile Computing, pp. 253-258, March 2011.

[59] W. Wang, X. Liu, J. Vicente, and P. Mohapatra, "Integration Gain of Heterogeneous WiFi/WiMax Networks," IEEE Transactions on Mobile Computing, pp. 1131-1143, August 2011.

[58] D. Wu, D. Gupta, and P. Mohapatra, "QuRiNet: A Wide-Area Wireless Mesh Testbed for Research and Experimental Evaluations," Ad Hoc Networks, Vol. 9, Issue 7, pp. 1221-1237, September 2011.

[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, vol. 60, No. 11, pp. 1561-70, Nov. 2011.

[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)

[284] R. Tsang, Asmita, D. Joseph, S. Salehi, P. Mohapatra, and H. Homayoun, “FFXE: Dynamic Control Flow Graph Recovery for Embedded Firmware Binaries,” USENIX Security Symposium, 2024.

[283] A. Chhabra, H. Askari, and P. Mohapatra, “Revisiting Zero-Shot Abstractive Summarization in the Era of Large Language Models from the Perspective of Position Bias,” North American Chapter of the Association for Computational Linguistics (NAACL), 2024.

[282] A. Chhabra, P. Li, P. Mohapatra, and H. Liu, “What Data Benefits My Classifier? Enhancing Model Performance and Interpretability Through Influence-Based Data Selection,” International Conference on Learning Representations (ICLR), 2024.

[281] S. Vijayaraghavan and P. Mohapatra, “Stability of Explainable Recommendation,” ACM Conference on Recommender Systems, 2023.

[280] H. Ku, J. Song, D. Zhang, P. Mohapatra, P. Pathak “Characterizing Real-time Radar-assisted Beamforming in mmWave V2V Links,” IEEE SECON, 2023.

[279] A. Chhabra, P. Li, P. Mohapatra, and H. Liu, “Robust Fair Clustering: A Novel Fairness Attack and Defense Framework,” International Conference on Learning Representations (ICLR), 2023.

[278] A. Chhabra and P. Mohapatra, “Fair Algorithms for Hierarchical Agglomerative Clustering,” IEEE International Conference on Machine Learning and Applications (ICMLA), 2022.

[277] A. Chhabra, A. Sekhari, and P. Mohapatra, "On the Robustness of Deep Clustering Models: Adversarial Attacks and Defenses," NeurIPS, 2022.

[276] Z. Fang, H. Fu, T. Gu, P. Hu, J. Song, T. Jaeger, and P. Mohapatra, "IOTA: A framework for analyzing system-level security of IoTs," IEEE/ACM Seventh International Conference on Internet-of-Things Design and Implementation (IoTDI), 2022.

[275] H. Zhang, M. Zhang, X. Liu, M. De Lucia, and P. Mohapatra, "FedTune: Automatic Tuning of Federated Learning Hyper-Parameters from System Perspective," IEEE MILCOM, 2022.

[274] A. Chhabra, A. Singla, and P. Mohapatra, "Fair Hierarchical Clustering," IEEE ICMLA 2022.

[273] A. Chhabra, A. Singla, and P. Mohapatra, "Fairness Degrading Adversarial Attacks Against Clustering Algorithms," NeurIPS AFCR Workshop 2021.

[272] A. Chhabra, A. Singla, and P. Mohapatra, "Fair Clustering Using Antidote Data," NeurIPS AFCR Workshop 2021.

[271] J. Song, T. Gu, and P. Mohapatra, "How BlockChain Can Help Enhance the Security and Privacy in Edge Computing?" ACM/IEEE Symposium on Edge Computing 2021.

[270] J. Song, T. Gu, Z. Fang, X. Feng. Y. Ge, H. Fu, and P. Mohapatra, "Blockchain Meets COVID-19: A Framework for Contact Information Sharing and Risk Notification System," IEEE MASS, 2021.

[269] A. Roy, K. Balasubramanian, S. Ghadimi, and P. Mohapatra, "Escaping Saddle-Point Faster under Interpolation-like Conditions," 34th Conference on Neural Information Processing Systems (NeurIPS), 2020. [AR=20%]

[268] H. Zhang, B. Han, C. Ip, and P. Mohapatra, "Slimmer: Accelerating 3D Semantic Segmentation for Mobile Augmented Reality," IEEE MASS, 2020.

[267] T. Gu, Z. Fang, A. Abhishek, and P. Mohapatra, "IoTSPY: Uncovering Human Privacy Leakage in IoT Networks via Mining Wireless Context," IEEE PIMRC, 2020.

[266] J. Song, T. Gu, Y. Ge, and P. Mohapatra, "Smart Contract-based Computing Resources Trading in Edge Computing," IEEE PIMRC, 2020.

[265] T. Gu, A. Abhishek, H. Fu. H. Zhang, D. Basu, and P. Mohapatra, "Towards Learning-automation IoT Attack Detection through Reinforcement Learning," IEEE WOWMOM, 2020.

[264] H. Zhang, B. Han,, and P. Mohapatra, "Toward Mobile 3D Vision," IEEE International Conference on Computer Communications and Networks (ICCCN), 2020.

[263] T. Gu, Z. Fang, A. Abhishek, H. Fu. P. Hu, and P. Mohapatra, "IoTGAZE: IoT Security Enforcement via Wireless Context Analysis," INFOCOM 2020. [AR=19.6%]

[262] A. Chhabra, A. Roy, and P. Mohapatra, "Suspicion-Free Adversarial Attacks on Clustering Algorithms," AAAI 2020 [AR = 20%].

[261] A. Roy, A. Chhabra, C. Kamhoua, and P. Mohapatra, "A Moving Target Defense against Adversarial Machine Learning," ACM/IEEE Symposium on Edge Computing, 2019.

[260] Z. Fang, H. Fu, T. Gu, Z. Qian, T. Jaeger, and P. Mohapatra, "ForeSee: A Cross-layer Vulnerability Detection Framework for the Internet of Things," IEEE MASS, 2019.

[259] J. Jiang, J, Chen, T. Gu, K. R. Choo, C. Liu, M. Yu, W. Huang, and P. Mohapatra, "Anomaly Detection with Graph Convolutional Networks for Insider Threat and Fraud Detection," IEEE MILCOM, 2019.

[258] J. Jiang, J, Chen, T. Gu, K. R. Choo, C. Liu, M. Yu, W. Huang, and P. Mohapatra, "Warder: Online Insider Threat Detection System Using Multi-Feature Modeling and Graph-Based Correlation," IEEE MILCOM, 2019.

[257] T. Gu, Z. Fang, P. Hu, and P. Mohapatra, *"*mmSense: Multi-Person Detection and Identification via mmWave Sensing," 3rd ACM Workshop on Millimeter-Wave Networks and Sensing Systems (mmNets) at Mobicom, 2019.

[256] A. Goswami, C. Zhai, and P. Mohapatra, *"*Learning to Diversify for E-Commerce Search and Multi-Armed Bandit," ACM SIGIR Workshop on E-Commerce, 2019.

[255] A. Goswami, P. Mohapatra, and C. Zhai, *"*Quantifying and Visualizing the Demand and Supply Gap from E-commerce Search Data using Topic Models," Workshop on E-commerce and Natural Language Processing, 2019.

[254] H. Zhang, M. Uddin, F. Hao, S. Mukherjee, and P. Mohapatra, *"*BeamSniff: Enabling Seamless Communication under Mobility and Blockage in 60GHz Networks," IFIP Networking, 2019.

[253] H. Zhang, M. Uddin, F. Hao, S. Mukherjee, and P. Mohapatra, *"*AIDE: Augmented Onboarding of IoT Devices at Ease," ACM Hotmobile, 2019.

[252] H. Fu, Z. Zheng, S. Zhu, and P. Mohapatra, *"*Keeping Context in Mind: Automating Mobile App Access Control with User Interface Inspection" IEEE INFOCOM, 2019. (AR=18%).

[251] H. Zhang, and P. Mohapatra, *"*On the Feasibility of Estimating Soluble Sugar Content using Millimeter Wave," ACM/IEEE Conference on IoT Design and Implementation, 2019.

[250] H. Zhang, and P. Mohapatra, *"*WiFi and Multiple Interfaces: Adequate for Virtual Reality?" ICPADS, 2018.

[249] Z. Yang, M. Bocca, V. Jain, and P. Mohapatra, *"*Contactless Breathing Rate Monitoring in Vehicles using UWB Radar" International Workshop on Real-World Embedded Wireless Systems and Networks, pp. 13-18, 2018.

[248] M. Wu, C. Aggarwal, Z. Yu, A. Swami, and P. Mohapatra, *"*Exploiting Knowledge Across Distinct Domains: Learning Event Details from Network Logs," MILCOM, 2018.

[247] J. Jiang, J. Chen, K. R. Choo, K. Liu, M. Yu, and P. Mohapatra, *"*Prediction and Detection of Malicious Insiders' Motivation Based on Sentiment Profile on Webpages and Emails," MILCOM, 2018.

[246] T. Gu and P. Mohapatra, *"*BF-IoT: Securing the IoT Networks via Fingerprinting-based Device Authentication," IEEE MASS, 2018.

[245] Z. Yang, P. Pathak, J. Pan, M. Sha, and P. Mohapatra, *"*Sense and Deploy: Blockage-aware Deployment of Reliable 60 GHz mmWave WLANs," IEEE MASS, 2018.

[244] C. Lyu, A. Pande, Y. Zhang, D. Gu, and P. Mohapatra, *"*FastTrust: Fast and Anonymous Spatial-Temporal Trust for Connected Cars on Expressways," IEEE SECON, 2018.

[243] A. Goswami, C. Zhai, and P. Mohapatra, *"*Learning to Rank and Discover for E-commerce Search," International Conference on Machine Learning and Data Mining, 2018.

[242] A. Roy, C. Kamhoua, and P. Mohapatra, *"*Game-Theoretic Characterization of Collusive Behavior among Attackers," IEEE INFOCOM, 2018. (AR=19%).

[241] X. Feng, Z. Zheng, P. Mohapatra, and D. Cansever, *"*A Stackelberg Game and Markov Modeling of Moving Target Defense," GameSec 2017.

[240] A. Das, P. Pathak, J. Jee, C. N. Chuah, and P. Mohapatra, *"*Non-Intrusive Multi-Modal Estimation of Building Occupancy," ACM Conference on Embedded Networked Sensor Systems (SenSys), 2017. (AR=17%).

[239] R. Sivaraj, M. Arslan, K. Sundaresan, S. Rangarajan, and P. Mohapatra, *"*BoLTE: Efficient Network-wide LTE Broadcasting," IEEE Int. Conference on Network Protocols (ICNP), 2017. (AR=18%).

[238] T. Dao, A. Roy-Chowdhury, N. Nasrabadi, S. Krishnamurthy, L. Kaplan, and P. Mohapatra, *"*Accurate and Timely Situation Awareness Retrieval from a Bandwidth Constraint Camera Network," IEEE MASS, 2017.

[237] Y. Zeng, I. Pefkianakis, K. H. Kim, and P. Mohapatra, *"*MU-MIMO-Aware AP Selection for 802.11ac Networks," ACM Int. Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2017. (AR=17%).

[236] P. Hu, P. Pathak, Y. Shen, H. Jin, and P. Mohapatra, *"*PCASA: Proximity-Based Continuous and Secure Authentication of Personal Devices," IEEE Int. Conference on Sensing, Communication, and Networking (SECON), 2017.

[235] M. Srivatsa, R. Ganti, and P. Mohapatra, *"*On the Limits of Subsampling of Location Traces," IEEE Int. Conference on Distributed Computing System (ICDCS), 2017.

[234] Y. Zeng, A. Pande, J. Zhu, and P. Mohapatra, *"*WearIA: Wearable Device Implicit Authentication based on Activity Information," IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WOWMOM), 2017.

[233] X. Feng, Z. Zheng, P. Mohapatra, D. Cansever, and A. Swami, *"*A Signaling Game Model for Moving Target Defense," IEEE INFOCOM, 2017. (AR=20.9%).

[232] Z. Li, M. Li, P. Mohapatra, and S. Chen, J. Han, *"*iType: Using Eye Gaze to Enhance Typing Privacy," IEEE INFOCOM, 2017. (AR=20.9%).

[231] H. Fu, Z. Zheng, S. Bose, M. Bishop, and P. Mohapatra, *"*LeakSemantic: Identifying Abnormal Sensitive Network Transmissions in Mobile Applications," IEEE INFOCOM, 2017. (AR=20.9%).

[230] Z. Zheng, N. Shroff, and P. Mohapatra, *"*When to Reset your Keys: Optimal Timing of Security Updates via Learning," AAAI Conference on Artificial Intelligence (AAAI-17), 2017. (AR=24.5%).

[229] J. Jee, A. Das, P. Pathak, and P. Mohapatra, *"*MotionSync: Personal Energy Analytics through Motion Tags and Wearable Sensing," ACM International Conference on Systems for Energy-Efficient Built Environments (BuildSys '16), 2016. (AR=24.4%).

[228] P. Hu, P. Pathak, A. K. Das, Z. Yang, and P. Mohapatra, *"*PLiFi: Hybrid Wifi-VLC Networking using Power Lines*,"* ACM Workshop on Visible Light Communication System, 2016.

[227] H. Zhang, W. Du, P. Zhou, M. Li, and P. Mohapatra, *"*DopEnc: Acoustic-Based Encounter Profiling Using Smartphones," ACM MOBICOM 2016. (AR=14.2%)

[226] H. Fu, H. Li, Zheng, P. Hu, and P. Mohapatra, *"*Trust Exploitation and Attention Competition: A Game Theoretical Model*,"* MILCOM 2016.

[225] X. Feng, Z. Zheng, D. Cansever, A. Swami, and P. Mohapatra, *"*Stealthy Attack with Insider Information: A Game Theoretic Model with Asymmetric Feedback*,"* MILCOM 2016.

[224] Z. Yang, P. Pathak, Y. Zeng, X. Liran, and P. Mohapatra, *"*Monitoring Vital Signs Using Millimeter Wave*,"* ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2016. (AR=18%)

[223] J. Zhu, A. Goswami, K. H. Kim, and P. Mohapatra, *"*Verification of User-reported Context Claims with Context Correlation Model*,"* IEEE International Conference on Sensing, Communication, and Networking (SECON), 2016.

[222] H. Fu, Z. Zheng, A. Das, P. Pathak, P. Hu, and P. Mohapatra, *"*FlowIntent: Detecting Privacy Leakage from User Intention to Network Traffic Mapping*,"* IEEE International Conference on Sensing, Communication, and Networking (SECON), 2016.

[221] Y. Zeng, P. Pathak, and P. Mohapatra, *"*WiWho: WiFi-Based Person Identification in Smart Spaces*,"* IEEE Information Processing in Sensor Networks (IPSN) 2016. (AR=19%)

[220] M. Wu, N. Nasrabadi, S. Krishnamurthy, and P. Mohapatra, *"*Resource-Aware Fusion in Multimodal Sensing under Network Constraints*,"* IEEE INFOCOM MiseNet Workshop, 2016.

[219] A. Das, P. Pathak, C. N. Chuah, and P. Mohapatra, *"*Uncovering Privacy Leakage in BLE Network Traffic of Wearable Fitness Trackers*,"* ACM HotMobile 2016.

[218] R. Sivaraj, I. Broustis, N. K. Shankaranarayanan, V. Aggarwal, R. Jana, and P. Mohapatra, *"*A QoS-enabled Holistic Optimization Framework for LTE-Advanced Heterogeneous Networks*,"* IEEE INFOCOM 2016. (AR=18%)

[217] E. Baik, A. Pande, Z. Zheng, and P. Mohapatra, *"*VSync: Cloud Based Video Streaming Service for Mobile Devices*,"* IEEE INFOCOM 2016. (AR=18%)

[216] A. Goswami, W. Han, A. Jiang, and P. Mohapatra, *"*A Topic Model Based Measure of Supply-Demand Gap for e-Commerce Platforms*,"* INFORMS Workshop on Data Mining and Analytics, 2015.

[215] P. Hu, P. Pathak, X. Feng, H. Fu, and P. Mohapatra, *"*ColorBars: Increasing Data Rate of LED-to-Camera Communication using Color Shift Keying*,"* ACM Conference on emerging Networking EXperiments and Technologies 2015 (CoNEXT 2015). (AR=20%)

[214] J. Zhu, A. Pande, P. Mohapatra, and J. Han, *"*Using Deep Learning for Energy Expenditure Estimation with Wearable Sensors*,"* IEEE HealthCom, 2015.

[213] X. Feng, Z. Zheng, P. Hu, D. Cansevar, and P. Mohapatra, *"*Stealthy Attacks Meets Insider Threats: A Three-Player Game Model*,"* IEEE Military Communications Conference (MILCOM), 2015.

[212] Z. Yang, P. Pathak, Y. Zeng, and P. Mohapatra, *"*Sensor-assisted Codebook-based Beamforming for Mobility Management in 60 GHz WLANs*,"* IEEE MASS, 2015.

[211] C. Lyu, A. Pande, X. Wang, J. Zhu, D. Gu, and P. Mohapatra, "CLIP: Continuous Location Integrity and Provenance for Mobile Phones," IEEE MASS, 2015.

[210] C. Buckley, P. Pathak, A. Das, C. N. Chuah, and P. Mohapatra, "AnonAD: Privacy-aware Micro-targeted Mobile Advertisements without Proxies," International Conference on Computer Communications and Networks (ICCCN), 2015.

[209] Y. Zeng, P. Pathak, and P. Mohapatra, "Analyzing Shopper's Behavior through WiFi Signals," ACM Workshop on Physical Analytics, 2015.

[208] T. Dao, I. Singh, H. Madhyastha, S. Krishnamurthy, G. Cao, and P. Mohapatra, "TIDE: A User-Centric Tool for Identifying Energy Hungry Applications on Smartphones," IEEE International Conference on Distributed Computing Systems, 2015 (AR=12.9%).

[207] M. Wu, P. Pathak, and P. Mohapatra, "Enabling Privacy-Preserving First-Person Cameras Using Low Power Sensors," IEEE SECON, 2015.

[206] A. Das, P. Pathak, C. N. Chuah, and P. Mohapatra, "Characterization of Wireless Multi-Device Users," IEEE SECON, 2015.

[205] L. Zhang, P. Pathak, M. Wu, Y. Zhao, and P. Mohapatra, "AccelWord: Energy Efficient Hotword Detection through Accelerometer," ACM MobiSys, 2015. (AR=13%)

[204] S. Seneviratne, A. Seneviratne, M. A. Kaafar, A. Mahanti, and P. Mohapatra, "Early Detection of Spam Mobile Apps," International World Wide Web Conference (WWW-2015), 2015. (AR = 14%)

[203] C. Xu, P. Pathak, and P. Mohapatra, "Finger-writing with Smartwatch: A Case for Finger and Hand gesture Recognition using Smartwatch," ACM International Workshop on Mobile Computing Systems and Applications (ACM HotMobile), 2015.

[202] L. Zhang, C. Xu, P. Pathak, and P. Mohapatra, "Characterizing Instant Messaging Apps on Smartphones," Passive and Active Measurement Conference (PAM), 2015.

[201] F. Jiang, E. Zarepour, M. Hassan, A. Seneviratne, and P. Mohapatra, "When to Type, Talk, or Swype: Characterizing Energy Consumption of Mobile Input Modalities," IEEE International Conference on Pervasive Computing and Communications (PerCom), 2015. (AR = 7.2% - Full Paper)

[200] P. Hu, H. Li, H. Fu, D. Cansever, and P. Mohapatra, "Dynamic Defense Strategy against Advanced Persistent Threat with Insiders," IEEE INFOCOM, 2015. (AR = 19%)

[199] E. Baik, A. Pande, C. Stover, P. Mohapatra, "Video Acuity Assessment in Mobile Devices," IEEE INFOCOM, 2015. (AR = 19%)

[198] R. Sivaraj, I. Broustis, N. Shankaranarayanan, V. Aggarwal, and P. Mohapatra, "Mitigating Macro-Cell Outage in LTE-Advanced Deployments," IEEE INFOCOM, 2015. (AR = 19%)

[197] P. McDaniel, T. Jaeger, T. LaPorta, N. Papernot, R. Walls, A. Kott, L. Marvel. A. Swami, P. Mohapatra, S. Krishnamurthy, and I. Neamtiu, "Security and Science of Agility," ACM Workshop on Moving Target Defense (MTD 2014), 2014.

[196] X. Wang, H. Fu, C. Xu, P. Mohapatra, "Provenance Logic: Enabling Multi-Event Based Trust in Mobile Sensing," IEEE International Performance, Computing and Communications Conference (IPCCC), 2014.

[195] A. Goswami, F. Hedayati, P. Mohapatra, "Recommendation Systems for Markets with Two-Sided Preferences," IEEE International Conference on Machine Learning and Applications (ICMLA), 2014.

[194] J. Zhu, S. Sen, P. Mohapatra, "Navigating in Signal Space: A Crowd-sourced Sensing Map Construction for Navigation," IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS), 2014.

[193] Y. Zeng, P. Pathak, C. Xu, and P. Mohapatra, "Your AP Knows How You Move: Fine-grained Device Motion Recognition Through WiFi," ACM Workshop on Hot Topics in Wireless (HotWireless), 2014.

[192] S. Seneviratne, A. Seneviratne, P. Mohapatra, and A. Mahanti, "Your Installed Apps Reveal Your Gender and More," ACM Workshop on Security and Privacy in Mobile Environments (SPME), 2014.

[191] J. Ning, I. Singh, H. Madhyastha, S. Krishnamurthy, G. Cao, and P. Mohapatra, "Secret Message Sharing Using Online Social Media," IEEE Conference on Communications and Network Security (CNS), 2014. **Best Paper Runner-Up Award**.

[190] R. Jin, L. Shi, K. Zeng, A. Pande, and P. Mohapatra, "MagPairing: Exploiting Magnetometers for Pairing Smartphones in Close Proximity," IEEE Conference on Communications and Network Security (CNS), 2014.

[189] S. Chen, A. Pande, and P. Mohapatra, “Sensor-Assisted Facial Recognition: An Enhanced Biometric Authentication System for Smartphones,” ACM Mobisys, 2014. (AR=13%)

[188] S. Jana, E. Baik, A. Pande, and P. Mohapatra, “Improving Mobile Video Telephony,” IEEE SECON, 2014.

[187] W. Cheng, J. Zhu, P. Mohapatra, and J. Wang, “Time and Energy Efficient Localization,” IEEE SECON, 2014.

[186] L. Zhang, C. Stover, A. Lins, C. Buckley, and P. Mohapatra, ″Characterizing Mobile Open APIs in Smartphone Apps,” IFIP Networking, 2014. (AR=25%)

[185] Y. Zeng, P. Pathak, and P. Mohapatra, ″A First Look at 802.11ac in Action: Energy Efficiency and Interference Characterization,” IFIP Networking, 2014. (AR=25%). **Best Paper Award.**

[184] A. K. Das, P. Pathak, C. N. Chuah, and P. Mohapatra, ″Contextual Localization Through Network Traffic Analysis,″ IEEE Infocom, 2014. (AR=19%)

[183] J. Kwak, O. Choi, S. Chong, and P. Mohapatra, ″Dynamic Speed Scaling for Energy Minimization in Delay-Tolerant Smartphone Applications,″ IEEE Infocom, 2014. (AR=19%)

[182] D. Wang, M. T. Amin, S. Li, T. Abdelzaher, L. Kaplan, S. Gu, C. Pan, H. Liu, C. Aggarwal, R. Ganti, X. Wang, P. Mohapatra, B. Szymanski, H. Le, "Using Humans as Sensors: An Estimation-Theoretic Perspective," ACM/IEEE Information Processing in Sensors Networks (IPSN), 2014. (AR=21%)

[181] A. Pande, S. Chen, G. Pande, and P. Mohapatra, "Architecture for Blocking Detection in Wireless Video Source Authentication," IEEE International Conference on VLSI Design, 2014.

[180] A. Pande, Y. Zeng, A. Das, P. Mohapatra, S. Miyamoto, E. Seto, E. Henricson, J. Han, "Energy Expenditure Estimation with Smartphone Body Sensors,” International Conference on Body Area Networks (BODYNETS), 2013. **Best Paper Award.**

[179] X. Wang, J. Zhu, A. Pande, A. Raghuramu, P. Mohapatra, T. Abdelzaher, and R. Ganti, "STAMP: Ah Hoc Spatial-Temporal Provenance Assurance for Mobile Users," IEEE Conference Network Protocols (ICNP), 2013. (AR=18%)

[178] V. Omwando, A. Pande, Y. Zeng, and P. Mohapatra, "Evaluating Perceptual Video Quality for Mobile Clients in 802.11n WLANs," WinTech Workshop, ACM Mobicom, 2013.

[177] S. Seneviratne, A. Seneviratne, P. Mohapatra, and P. U. Toumoux, "Characterizing WiFi Connections and its Impact on Mobile Users," WinTech Workshop, ACM Mobicom, 2013.

[176] Y. Chapre, P. Mohapatra, S. Jha, and A. Seneviratne, "Received Signal Strength Indicator and Its Analysis in Typical WLAN Systems," IEEE Conference on Local Computer Networks, 2013.

[175] A. Pande, Y. Zeng, A. Das, S. Miyamoto, E. Henricson, E. Seto, J. Han, and P. Mohapatra, “Accurate Energy Expenditure Estimation Using Smartphone Sensors," Wireless Health, 2013.

[174] A. Pande, E. Baik, and P. Mohapatra, "Efficient Health Data Compression on Mobile Devices," ACM Mobihoc Workshop on Pervasive Wireless Heathcare (MobileHealth), 2013.

[173] S. Seneviratne, A. Seneviratne, and P. Mohapatra, "Personal cloudlets for privacy and resource efficiency in mobile in-app advertising," ACM Mobihoc Workshop on Mobile Cloud, (MobiCloud) 2013.

[172] S. Jana, A. Pande, A. Chan, and P. Mohapatra, "Network Characterization and Perceptual Evaluation of Skype Mobile Videos," IEEE International Conference on Computer Communications and Networks (ICCCN), 2013.

[171] D. Ghosh and P. Mohapatra, "Resource Allocation in OFDMA Femto Networks," IEEE International Conference on Computer Communications and Networks (ICCCN), 2013. **(Best Paper Award)**.

[170] K. Tan and P. Mohapatra, "Design and Implementation of a Frequency-aware Wireless Video Communication System," IEEE Conference on Sensing and Communication in Wireless Networks (SECON), 2013 (AR=18.2%).

[169] J. Zhu, K. H. Kim, P. Mohapatra, and P. T. Congdon, "An Adaptive Privacy-Preserving Scheme for Location Tracking of a Mobile User," IEEE Conference on Sensing and Communication in Wireless Networks (SECON), 2013 (AR=18.2%).

[168] X. Cheng, G. R. Gupta, and P. Mohapatra, "Joint Carrier Aggregation and Packet Scheduling in LTE-Advanced Networks," IEEE Conference on Sensing and Communication in Wireless Networks (SECON), 2013 (AR=18.2%).

[167] R. Sivaraj, A. Pande, and P. Mohapatra, "Spectrum-aware Radio Resource Management for scalable video multicast in LTE-Advanced Systems," IFIP Networking, 2013.

[166] W. Hu, G. Cao, S. V. Krishnamurthy, and P. Mohapatra, "Mobility-Assisted Energy-Aware User Contact Detection in Mobile Social Networks, IEEE International Conference on Distributed Computing Systems (ICDCS), 2013, (AR = 13%).

[165] K. Lee, R. Ganti, M. Srivasta, and P. Mohapatra, "Spatio-Temporal Provenance: Identifying Location Information from Unstructured Text," IEEE International Workshop on Information Quality and Quality of Service for Pervasive Computing, 2013.

[164] A. Seneviratne, K. Thilakaratna, S. Seneviratne, M. A. Kaafar, and P. Mohapatra, "Reconciling Bitter Rivals: Towards Privacy-Aware and Bandwidth Efficient Mobile Ads Delivery Networks," IEEE COMSNETS, 2013.

[163] X. Wang, J. H. Cho, K. S. Chan, M. J. Chang, A. Swami, and P. Mohapatra, "Trust and Independence Aware Decision Fusion in Distributed Networks," IEEE International Workshop on Information Quality and Quality of Service for Pervasive Computing, 2013.

[162] X. Wang, W. Cheng, P. Mohapatra, and T. Abdelzaher, "ARTSense: Anonymous Reputation and Trust in Participatory Sensing," IEEE INFOCOM 2013, (AR = 17%).

[161] W. Cheng, K. Tan, V. Omwando, J. Zhu, and P. Mohapatra, "RSS-Ratio for Enhancing Performance of RSS-based Applications," IEEE INFOCOM 2013, (AR = 17%).

[160] N. Cheng, X. Wang, W. Cheng, P. Mohapatra, A. Seneviratne, "Characterizing Privacy Leakage of Public WiFi Networks for Users on Travel," IEEE INFOCOM 2013, (AR = 17%).

[159] S. Chen, A. Pande, K. Zeng, and P. Mohapatra, "Live Video Forensics: Source Identification in Lossy Wireless Networks," IEEE INFOCOM Miniconference, 2013, (AR = 23%).

[158] K. Kant, R. Iyer, and P. Mohapatra, "Architectural Impact of Secure Socket Layer on Internet Servers: A Retrospect," IEEE ICCD, 2012, pp. 25-26, Original paper published in ICCD-2000 was selected among the four most influential work during the first 30 years of ICCD conference.

[157] K. Tan, K. Zeng, D. Wu, and P. Mohapatra, "Detecting Spectrum Misuse in Wireless Networks," IEEE MASS, 2012.

[156] E. Baik, A. Pande, and P. Mohapatra, "Cross-Layer Coordination for Efficient Content Delivery in LTE eMBMS Traffic," IEEE MASS, 2012.

[155] X. Cheng and P. Mohapatra, "Quality-optimized Downlink Scheduling for Video Streaming Applications in LTE Networks," IEEE GLOBECOM, 2012.

[154] X. Wang, K. Govindan, K. Zeng, and P. Mohapatra, "Chaining for Securing Data Provenance in Distributed Information Networks," IEEE MILCOM, 2012.

[153] N. Cheng, M. Cunche, M. A. Kaafar, R. Boreli, and P. Mohapatra, "Inferring User Relationship from Hidden Information in WLANs," IEEE MILCOM, 2012.

[152] A. Chan, A. Pande, E. Baik, and P. Mohapatra, "Temporal Quality Assessment for Mobile Videos," ACM MOBICOM, 2012 (AR=15%).

[151] L. Zhang, K. Tan, K. Zeng, and P. Mohapatra, "Fast Rendezvous for Cognitive Radios by Exploiting Power Leakage At Adjacent Channels," IEEE Int. Conference on Personal, Indoor and Mobile Radio Communications (PIMRC), 2012.

[150] R. Sivaraj, A. Pande, K. Zeng, K. Govindan, and P. Mohapatra, "Edge-prioritized Channel- and Traffic-aware Uplink Carrier Aggregation in LTE-Advanced Systems, IEEE WOWMOM 2012. (AR=23%)

[149] J. Zhu, K. Zeng, K. H. Kim, and P. Mohapatra, "Improving Crowd-Sourced Wi-Fi Localization Systems using Bluetooth Beacons, IEEE SECON, 2012.

[148] S. Chen, K. Zeng, N. Cheng, and P. Mohapatra, "Transmit Power Estimation with a Single Monitor in Multi-band Networks, IEEE SECON, 2012.

[147] E. Seo, P. Mohapatra, and T. Abdelzaher "Identifying Rumors and Their Sources in Social Networks, SPIE Defense, Security, and Sensing, 2012.

[146] S. Jana, K. Zeng, and P. Mohapatra, "Trusted Collaborative Spectrum Sensing for Mobile Cognitive Radio Networks," IEEE Infocom Miniconference, 2012.

[145] K. B. Kredo and P. Mohapatra, "Scheduling Granularity in Underwater Acoustic Networks," ACM International Workshop on Underwater Networks, 2011.

[144] A. Pande, J. Zambreno, and P. Mohapatra, “Using Chaotic Maps for Encrypting Image/ Video Content,” IEEE International Symposium of Multimedia, 2011.

[143] S. Chen, K. Zeng, and P. Mohapatra, “Efficient Data Capturing for Network Forensics in Cognitive Radio Networks,” IEEE International Conference on Network Protocols (ICNP), 2011. (AR=16%)

[142] C. C. Chen, Y. R. Choe, C. N. Chuah, and P. Mohapatra, “Experimental Evaluation of the Impact of Packet Capturing Tools for Web Services,” IEEE Globecom 2011.

[141] A. Pande, V. Ramamurthi, and P. Mohapatra, “Quality-oriented Video delivery over LTE using Adaptive Modulation and Coding,” IEEE Globecom 2011.

[140] P. McDonagh, C. Vallati, A. Pande, P. Mohapatra, P. A. Perry, E. Mingozzi, “Investigation of Scalable Video Delivery using H.264 SVC on an LTE Network,” International Symposium on Wireless Personal Multimedia Communications, 2011. **[Best Paper Award]**

[139] G. Dogan, T. Brown, K. Govindan, M. Khan, T. Abdelzaher, P. Mohapatra, J. H. Cho, “Evaluation of Network Trust Using Provenance Based on Distributed Local Intelligence,” MILCOM 2011.

[138] K. Govindan, X. Wang, M. Khan, G. Dogan, K. Zeng, G. M. Powell, T. Brown, T. Abdelzaher, P. Mohapatra, “PRONET: Network Trust Assessment Based on Incomplete Provenance,” MILCOM 2011.

[137] M. Arslan, K. Pelechrinis, I. Broustis, S. V. Krishnamurthy, P. Krishnamurthy, and P. Mohapatra, "Detecting Route Attraction Attacks in Wireless Networks," IEEE MASS 2011.

[136] A. Pande, J. Zambreno, and P. Mohapatra, " Hardware Architecture for Simultaneous Arithmetic Coding and Encryption," Int. Conference on engineering of Reconfigurable Systems and Algorithms (ERSA), 2011.

[135] E. Seo, M. Hasan Khan, P. Mohapatra, J. Han and T. Abdelzaher, "Exposing Complex Bug-Triggering Conditions in Distributed Systems via Graph Mining," International Conference on Parallel Processing (ICPP), Taipei, Taiwan, September 2011. (AR=22%)

[134] A. Pande, J. Zambreno, and P. Mohapatra, "Architecture for Simultaneous Coding and Encryption Using Chaotic Maps," IEEE Int. Symposium on VLSI (ISVLSI), July 2011.

[133] P. Kumar, A. Pande, A. Mudgal, A. Mittal, and P. Mohapatra, "Distributed Video Surveillance using Mobile Agents," IEEE Int. Conference on Digital Convergence, Feb. 2011.

[132] H. Yu, K. Zeng, and P. Mohapatra, "Measurement-Based Short-Term Performance Prediction in Wireless Mesh Networks," IEEE International Workshop on Performance Modeling and Evaluation of Computer and Telecommunication Networks, 2011.

[131] X. Wang, K. Govindan, and P. Mohapatra, "Exploiting Mobility for Trust Propagation in Mobile Ad Hoc Networks," IEEE 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," IEEE 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.

[115] K. Kredo and P. Mohapatra, "Distributed Scheduling and Routing in Underwater Wireless Networks," IEEE Globecom, 2010.

[114] X. Wang, K. Govindan, and P. Mohapatra, "Provenance-Based Information Trustworthiness Evaluation in Multihop Networks," IEEE Globecom, 2010.

[113] P. Congdon, A. Fischer, and P. Mohapatra, "A Case for VEPA: Virtual Ethernet Port Aggregator," Workshop on Data Center Converged and Virtual Ethernet Switching (DC-CAVES), 2010.

[112] K. Tan, D. Wu, A. Chan, and P. Mohapatra, "Comparing Simulation Tools and Experimental Testbeds for Wireless Mesh," IEEE WoWMoM, 2010 (AR=25%).

[111] D. Gupta and P. Mohapatra, "Diagnosing Failures in Wireless Networks using Fault Signatures," IEEE ICC, 2010.

[110] S. Chen, K. Zeng, and P. Mohapatra, "Jamming Resistant Communication: Channel Surfing without Negotiation," IEEE ICC, 2010.

[109] D. Wu and P. Mohapatra, "QuRiNet: A Wide-Area Wireless Mesh Testbed for Research and Experimental Evaluations," COMSNET, 2010.

[108] K. Zeng, D. Wu, A. Chan, and P. Mohapatra, "Exploiting Multiple-Antenna Diversity for Shared Secret Key Generation in Wireless Networks," IEEE INFOCOM 2010 (AR=17.5%).

[107] A. Chan, K. Zeng, P. Mohapatra, S. J. Lee, and S. Banerjee, "Metrics for Evaluating Video Streaming Quality in Lossy IEEE 802.11 Wireless Networks," IEEE INFOCOM 2010 (AR=17.5%).

[106] D. Wu and P. Mohapatra, "From Theory to Practice: Evaluating Static Channel Assignments on a Wireless Mesh Network," IEEE INFOCOM Miniconference, 2010 (AR=24%).

[105] C. T. Deccio, J. Sedayao, K. Kant, and P. Mohapatra, "Measuring Availability in the Domain Name System," IEEE INFOCOM Miniconference, 2010 (AR=24%).

[104] D. Ghosh, A. Gupta, and P. Mohapatra, "Adaptive Scheduling of Prioritized Traffic in IEEE 802.16j Wireless Networks," IEEE Int. Conference on Wireless and Mobile Computer Networks and Communications (WiMob), 2009 **(Best Student Paper Award).**

[103] C. Deccio, C. C. Chen, J. Sedayao, K. Kant, and P. Mohapatra, "Quality of Name Resolution in Domain Name System," IEEE ICNP 2009 (AR=18%).

[102] H. Yu, D, Wu, and P. Mohapatra, "Experimental Anatomy of Packet Losses in Wireless Mesh Networks," IEEE SECON 2009 (AR=18%).

[101] P. Djukic and P. Mohapatra, "Soft-TDMAC: Software TDMA-based MAC over Commodity 802.11 hardware," IEEE INFOCOM 2009 (AR=19%).

[100] K. B. Kredo, P. Djukic, and P. Mohapatra, "STUMP: Exploiting Position Diversity in the Staggered TDMA Underwater MAC Protocol," IEEE INFOCOM Mini-Conference, 2009 (AR=26%).

[99] D. Gupta, D. Wu, P. Mohapatra, and C. N. Chuah, "Experimental Comparison of Bandwidth Estimation Tools for Wireless Mesh Networks," IEEE INFOCOM Mini-Conference, 2009 (AR=26%).

[98] D. Gupta, P. Mohapatra, and C. N. Chuah, "Efficient Monitoring in Wireless Mesh Networks: Overheads and Accuracy Tradeoffs," IEEE MASS, 2008. (AR=12%) *(Nominated for Best Paper Award).*

[97] H. Liu, X. Liu, C. N. Chuah, and P. Mohapatra, "Heterogeneous Wireless Access in Large Mesh Networks," IEEE MASS, 2008. (AR=12%)

[96] P. Congdon, M. Farrens, and P. Mohapatra, "Packet Prediction for Speculative Cut-Through Switching," ACM/IEEE Symposium on Architectures for Networking and Communications Systems, 2008. (AR=26%)

[95] K. Pelechrinis, I. Broustis, T. Salonidis, S. Krishnamurthy, and P. Mohapatra, " Design and Deployment Considerations for High-Performance MIMO Testbeds," Wireless Internet Conference, 2008.

[94] A. Chan, S. J. Lee, X. Cheng, S. Banerjee, and P. Mohapatra, "The Impact of Link Layer Retransmissions on Video Streaming in Wireless Mesh networks," Wireless Internet Conference, 2008.

[93] D. Wu, P. Djukic, and P. Mohapatra, "Determining 802.11 Link Quality with Passive Measurements," IEEE International Symposium on Wireless Communication Systems, 2008.

[92] M. Shao, S. Zhu, G. Cao, T. La-Porta, and P. Mohapatra, "A Cross-layer Dropping Attack in Video Streaming over Ad Hoc Networks," IEEE SecureComm, 2008. (AR=20%)

[91] X. Cheng, P. Mohapatra, S. J. Lee, and S. Banerjee, "Performance Evaluation of Video Streaming in Multihop Wireless Mesh Networks," IEEE NOSSDAV, 2008.

[90] X. Cheng, P. Mohapatra, S. J. Lee, and S. Banerjee, "MARIA: Interference-Aware Admission Control and QoS Routing in Wireless Mesh Networks," IEEE ICC, 2008.

[89] D. Ghosh, A. Gupta, and P. Mohapatra, "Admission Control and Interference-Aware Scheduling in Multi-hop WiMAX Networks," IEEE MASS, 2007. (AR=26%)

[88] D. Gupta, D. Wu, C. C. Chen, C. N. Chuah, P. Mohapatra, and S. Rungta, "Experimental Study of Measurement-Based Admission Control in Wireless Mesh Networks," IEEE MASS, 2007. (AR=25%)

[87] K. Kredo and P. Mohapatra, "A Hybrid Medium Access Control Protocol for Underwater Wireless Networks," ACM International Workshop on Underwater Wireless Networks (WUWNet), Held in Conjuction with Mobicom 2007.

[86] H. Yu, P. Mohapatra, and X. Liu, "Dynamic Channel Assignment and Link Scheduling in Multi-Radio Multi-Channel Wireless Mesh Networks," Mobiquitous 2007. (AR=22%)

[85] M. Huynh and P. Mohapatra, "A Scalable Hybrid Approach to Switching in Metro Ethernet Networks," IEEE LCN 2007.

[84] M. Huynh, P. Mohapatra, and S. Goose, "Cross-Over Spanning Trees: Enhancing Metro Ethernet Resilience and Load Balancing," IEEE BROARDNETS, 2007.

[83] A. Sahoo, K. Kant, and P. Mohapatra, "Improving Packet Delivery Performance of BGP During Large-Scale Failures," IEEE Globecom 2007.

[82] L. Yuan, C. N. Chuah, and P. Mohapatra, "ProgME: Towards Programmable Network Measurement," Proceedings of ACM SIGCOMM 2007. (AR=13%)

[81] H. Liu, H. Yu, X. Liu, C. N. Chuah, and P. Mohapatra, "Scheduling Multiple Partially Overlapped Channels in Wireless Mesh Networks," ICC 2007.

[80] D. Wu, D. Gupta, and P. Mohapatra, "Quail Ridge Wireless Mesh Network," IEEE TRIDENTCOM 2007.

[79] A. Gupta and P. Mohapatra, "Energy Consumption and Conservation in WiFi-Based Phones: A Measurement-Based Study," IEEE SECON 2007. (AR=21%)

[78] L. Yuan, K. Kant, P. Mohapatra, and C. N. Chuah, "A Proxy View of Quality of Domain Name Service," INFOCOM 2007. (AR=18%)

[77] D. Gupta, J. LeBrun, P. Mohapatra, C-N. Chuah, "A WDS-based Layer-2 Routing Scheme for Wireless Mesh Networks," *ACM International Workshop on Wireless Testbeds, Experimental Evaluation and Characterization (WiNTECH)*, in conjunction with *ACM MobiCom* , September 2006

[76] D. Wu, D. Gupta, S. Liese, P. Mohapatra, "Quail Ridge Natural reserve Wireless Mesh Network", *ACM International Workshop on Wireless Testbeds, Experimental Evaluation and Characterization (WiNTECH)*, in conjunction with *ACM MobiCom* ,, September 2006.

[75] A. Sahoo, K. Kant, and P. Mohapatra, "Speculative Route Invalidation to Improve BGP Convergence Delay under Large-Scale Failures," Int. Conf. on Computer Communications and Networks (ICCCN), 2006.

[74] C. D. Murta, P. R. Torres, and P. Mohapatra, "Characterizing Quality of Time and Topology in a Time Synchronization Network," Globecom 2006.

[73] J. Li, Z. Li, and P. Mohapatra, "APHD: End-to-End Delay Assurance in 802.11e Based MANETs," MOBIQUITOUS 2006. (AR=22%)

[72] C. Gui, A. Gupta, and P. Mohapatra, "Securing Sensor Networks Using a Novel Multi-Channel Architecture," Broadnets, 2006.

[71] A. Sahoo, K. Kant, and P. Mohapatra, "Improving BGP Convergence Delay for Large-Scale Failures," Int. Conference on Dependable Systems and Networks (DSN), 2006. (AR=19%)

[70] S. Liese, D. Wu, and P. Mohapatra, "Experimental Characterization of an IEEE 802.11b Wireless Mesh Network," ACM Int. Wireless Communications and Mobile Computing Conference, 2006.

[69] J. S. Pathmasuntharam, A. Das, and P. Mohapatra, "A Flow-Control Framework for Improving Throughput and Energy Efficiency in CSMA/CA Based Wireless Multihop Networks," IEEE WoWMoM, 2006.

[68] Z. Li, L. Yuan, and P. Mohapatra, "An Efficient Overlay Link Performance Monitoring Technique," IFIP Networking, 2006. (AR=20%)

[67] L. Yuan, J. Mai, Z. Su, H. Chen, C. N. Chuah, and P. Mohapatra, "FIREMAN: A Toolkit for Firewall Modeling and Analysis," IEEE Symposium on Security and Privacy, 2006. (AR=9.2%) **[Google Scholar Classic Papers: Articles That Have Stood the Test of Time]**

[66] A. Sahoo, K. Kant, and P. Mohapatra, "Characterization of BGP Recovery Time under Large-Scale Failures," ICC 2006.

[65] M. Huynh and P. Mohapatra, "Etherlay: An Overlay Enhancement for Metro Ethernet Networks," ICC 2006.

[64] L. Yuan, K. Kant, P. Mohapatra, and C. N. Chuah, "DoX: A Peer-to-Peer Antidote for DNS Cache Poisoning Attacks," ICC 2006.

[63] A. Gupta, C. Gui, and P. Mohapatra, "Exploiting Multi-channel Clustering for Power Efficiency in Sensor Networks," COMSWARE 2006.

[62] A. S. Sudhir, G. Manimaran, and P. Mohapatra, "Heterogeneous QoS Multicast in DiffServ-like Networks," International Conf. on Computer Communications and Networks, 2005.

[61] F. Hui and P. Mohapatra, "Experimental Characterization of Multi-hop Communications in Vehicular Ad Hoc Network," ACM VANET Workshop, Mobicom 2005.

[60] X. Liu and P. Mohapatra, "On the Deployment of Wireless Sensor Nodes," ACM SenMetrics, 2005.

[59] J. Li and P. Mohapatra, "An Analytical Model for the Energy-Hole Problem in Many-to-One Sensor Networks," IEEE Vehicular Technology Conference, Fall 2005.

[58] S. Narayan, J. Pandya, P. Mohapatra, and D. Ghosal, "Analysis of Windowing and Peering Schemes for Cache Coherency in Mobile Devices," IFIP Networking, 2005. (AR=24%)

[57] Z. Li, P. Mohapatra, and C. N. Chuah, "Virtual Multihoming: On the Feasibility of Combining Overlay Routing with BGP Routing," IFIP Networking, 2005. (AR=24%)

[56] C. Gui and P. Mohapatra, "Virtual Patrol: A new Power Conservation Design for Surveillance Using Sensor Networks," IEEE/ACM Information Processing in Sensor Networks (IPSN), 2005. (AR=17%)

[55] M. Takai, R. Bagrodia, M. Gerla, B. Daneshrad, M. Fitz, M. Srivastava, E. Belding-Royer, S. Krishnamurthy, M. Molle, P. Mohapatra, R. Rao, U. Mitra, C. C. Shen, and J. Evans, "Scalable Testbed for Next-Generation Wireless Networking Technologies," Int. Conf. on Testbed and Research Infrastructures for the Development of Networks and Communities (TRIDENTCOM), 2005.

[54] L. Yuan, C. Gui, C. N. Chuah, and P. Mohapatra, "Applications and Design of Heterogeneous and/or Broadband Sensor Networks," IEEE Workshop on Broadband Advanced Sensor Networks (Basenets), Broadnets 2004 (Invited paper).

[53] H. Chen, J. Li, and P. Mohapatra, "RACE: Time Series Compression with RACE Adaptivity and Error Bound for Sensor Networks," IEEE International Conference on Mobile Ad Hoc and Sensor Systems (MASS), 2004. (AR=24%)

[52] C. Gui and P. Mohapatra, "Power Conservation and Quality of Surveillance in Target Tracking Sensor Networks," ACM International Conference on Mobile Computing and Networking (MOBICOM), 2004. (AR=7%)

[51] J. Pandya, P. Mohapatra, and D. Ghosal, "Asymptotic Analysis of Peer-Enhanced Cache Invalidation Scheme," Modeling and Optimization in Mobile Ad Hoc and Wireless Networks (WiOpt'04), 2004. (AR=23%)

[50] C. Gui and P. Mohapatra, "Scalable Multicasting in Mobile Ad Hoc Networks," IEEE INFOCOM, 2004. (AR=18%)

[49] Z. Li and P. Mohapatra, "Impact of Topology on Overlay Routing Service," IEEE INFOCOM, 2004. (AR=18%)

[48] J. Li and P. Mohapatra, "A Novel Mechanism for Flooding Based Route Discovery in Ad Hoc Networks," Wireless Communications Symposium, Globecom 2003.

[47] C. Gui and P. Mohapatra, "SHORT: A Self Healing and Optimizing Routing Technique for Ad Hoc Networks," ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), pp. 279-290, 2003.

[46] A. H. Esfahanian, B. Yang, P. Mohapatra, and L. Ni, "A Tree Building Technique for Overlay Multicasting in DiffServ Domains," International Conference on Internet Computing, (IC'03), pp. 891-899, 2003.

[45] Z. Li and P. Mohapatra, "HostCast: A New Overlay Multicasting Protocol," IEEE International Communications Conference (ICC), 2003.

[44] H. Chen and P. Mohapatra, "CATP: A Context-Aware Transportation Protocol for HTTP," Int. Workshop on New Advances in Web Servers and Proxy Technologies (Held with ICDCS), pp. 922-927, 2003.

[43] H. Chen and P. Mohapatra, "Using Service Brokers for Accessing Backend Servers for Web Applications," Int. Workshop on New Advances in Web Servers and Proxy Technologies (Held with ICDCS), pp. 928-933, 2003.

[42] C. Gui and P. Mohapatra, "Efficient Overlay Multicast for Mobile Ad Hoc Networks," Wireless Communications and Networking Conference (WCNC), 2003.

[41] J. Li and P. Mohapatra, "LAKER: Location Aided Knowledge Extraction Routing for Mobile Ad Hoc Networks," Wireless Communications and Networking Conference (WCNC), 2003.

[40] Z. Li and P. Mohapatra, "QoS-Aware Multicasting in DiffServ Domains," Global Internet Symposium, Globecom 2002.

[39] B. Yang and P. Mohapatra, "Multicasting in Differentiated Service Domains," Globecom 2002.

[38] B. Yang and P. Mohapatra, “Edge Router Multicasting with MPLS Traffic Engineering,” IEEE International Conference on Networks, pp. 43-48, Aug. 2002.

[37] U. Vallamsetty, K. Kant, and P. Mohapatra, "Characterization of E-Commerce Traffic," International Workshop on Advanced Issues of E-Commerce and Web-based Information Systems, pp. 137-144, 2002.

[36] H. Chen and P. Mohapatra, “Session-Based Overload Control in QoS-Aware Web Servers,” pp. 516-524, INFOCOM 2002.

[35] Z. Li and P. Mohapatra, “QoS-Aware Multicast Protocol Using Bounded Flooding (QMBF) Technique,” IEEE International Communications Conference (ICC), pp. 1259-1263, 2002.

[34] Y. Chen, L. Ni, M. Yang, and P. Mohapatra, “CoStore: A Serverless Distributed File System Utilizing Idle Disk Space on Workstation Clusters,” Int. Performance, Computing, and Communications Conference (IPCCC), pp. 393-398, 2002.

[33] P. Mohapatra and H. Chen, “A Framework for Managing QoS and Improving Performance of Dynamic Web Content,” GLOBECOM 2001, pp. 2460-2464.

[32] X. Chen, H. Chen, and P. Mohapatra, “An Admission Control Scheme for Predictable Server Response Time for Web Accesses,” Proceedings of the 10th International World Wide Web Conference, pp. 545-554, May, 2001.

[31] F. Wang and P. Mohapatra, “An Efficient Bandwidth Management Scheme for Real-Time Internet Applications,” IEEE Int. Symposium on Intelligent Multimedia, Video and Speech Processing, pp. 469-472, May, 2001.

[30] U. Vallamsetty, P. Mohapatra, R. Iyer, and K. Kant, “Improving Cache Performance for Network-Intensive Workload,” pp. 87-94, Int. Conf. on Parallel Processing, 2001.

[29] K. Kant, R. Iyer, and P. Mohapatra “Architectural Impact of Secure Socket Layer on Internet Servers,” Int. Conference on Computer Design, pp. 7-14, 2000.

[28] F. Wang, P. Mohapatra, S. Mukherjee, “An Application-Based Differentiated Service Model,” IEEE International Conference on Networks, pp. 424-430, 2000.

[27] X. Chen and P. Mohapatra, “Providing Differentiated Service from an Internet Server,” Int. Conference on Computer Communications and Networks, pp. 214-217, 1999.

[26] P. Mohapatra, H. Thantry, and K. Kant, “Bus Traffic Characterization of SPECweb96 Benchmark,” IEEE Workshop on Workload Characterization, 1999.

[25] A. Tyagi, H. C. Ng, and P. Mohapatra, “Dynamic Branch Decoupled Architecture,” Int. Conference on Computer Design, pp. 442-450, 1999.

[24] X. Chen and P. Mohapatra, “TTL Workload Characterization of WWW Servers,” IEEE Workshop on Internet Applications, pp. 54-61, 1999.

[23] X. Jiang and P. Mohapatra, “Efficient Stream Scheduling Algorithms for Multimedia Storage Servers,” Int. Conference on Parallel Processing, pp. 321-328, 1998.

[22] C. Chang and P. Mohapatra, “Processor Allocation Using User Directives in Mesh-Connected Multicomputer Systems,” International Conference on High-Performance Computing, pp. 302-309, Dec. 1998.

[21] C. Chang and P. Mohapatra, "Experimental Evaluation of Communication Latency in Multicomputer Systems," International Conference on Parallel and Distributed Computing and Systems, pp. 163-166, Oct. 1997.

[20] V. Varavithya and P. Mohapatra, "Tree-Based Multicasting on Wormhole Routed Multistage Interconnection Network," International Conference on Parallel Processing, pp. 203-206, Aug. 1997.

[19] C. Chang and P. Mohapatra, “An Integrated Processor Management Scheme for Mesh-Connected Multicomputer System,” International Conference on Parallel Processing, pp. II 18-21, Aug. 1997

[18] X. Jiang and P. Mohapatra, "An Aggressive Admission Control Scheme for Multimedia Storage Servers," IEEE International Conf. on Multimedia Computer Systems, 1997.

[17] P. Mohapatra and V. Varavithya, "A Hardware Multicast Routing Algorithm for Two-Dimensional Meshes," IEEE Symposium on Parallel and Distributed Processing, pp. 198-205, 1996.

[16] P. Mohapatra, B. Ahn, and J. F. Shi, "On-Line Real-Time Task Scheduling on Partitionable Multiprocessors," IEEE Symposium on Parallel and Distributed Processing, pp. 350-357, 1996.

[15] S. K. Mishra and P. Mohapatra, "Performance Study of RAID-5 Disk Arrays with Data and Parity Cache," International Conference on Parallel Processing, pp. 222-229, 1996.

[14] C. Chang and P. Mohapatra, "An Adaptive Job Allocation Method for Directly-Connected Multicomputer Systems," Int. Conf. On Distributed Computing Systems, pp. 224-231, 1996.

[13] J. Upadhyay, V. Varavithya, and P. Mohapatra, "Routing Algorithms for Torus Networks," International Conference on High Performance Computing, pp. 743-748, 1995.

[12] V. Varavithya, J. Upadhyay, and P. Mohapatra, "An Efficient Fault-Tolerant Routing Scheme for Two-Dimensional Meshes," Int. Conf. on High Performance Computing, pp. 773-778, 1995.

[11] J. Upadhyay and P. Mohapatra, "An Efficient Processor Allocation Scheme for Mesh-Connected Parallel Computer," IEEE Symposium on Parallel and Distributed Processing, pp. 196-203, 1995.

[10] C. Chang and P. Mohapatra, "Computing Submesh Reliability in Two-Dimensional Meshes," Int. Conf. on Parallel and Distributed Computing Systems, pp. 287-292, 1995.

[9] S. K. Mishra, S. K. Vemulapalli, and P. Mohapatra, "Dual Crosshatch Disk Array: A Highly Reliable Hybrid-RAID Architecture," International Conference on Parallel Processing, pp. 146-149, 1995.

[8] J. Upadhyay, V. Varavithya, and P. Mohapatra, "Efficient and Balanced Adaptive Routing in Two-Dimensional Meshes," Int. Symp. on High Performance Computer Architecture, pp. 112-121, 1995.

[7] P. Mohapatra, S. Wong, and C. R. Das, "Analytical Modeling of Combining Multistage Interconnection Networks," International Conference on Modeling Techniques and Tools for Computer Performance Evaluation, pp. 71-76, May 1994.

[6] P. Mohapatra, S. Wong, and C. R. Das, "Performance Analysis of Combining in Multistage Interconnection Networks," International Conference on Parallel Processing, pp. 13-16, 1994.

[5] P. Mohapatra, and C. R. Das, "A Queuing Model for Finite-Buffered Multistage Interconnection Networks," International Conference on Parallel Processing, Vol. I, pp. 210-213, August 1993.

[4] P. Mohapatra, C. Yu, and C. R. Das, "A Lazy Scheduling Scheme for Improving Hypercube Performance," International Conference on Parallel Processing, Vol. I, pp. I 10- 1 17, August 1993.

[3] C. Yu, P. Mohapatra, and C. R. Das, "Processor Allocation Using a Reservation Technique for Hypercube Computers," International Conference on Parallel and Distributed Computing Systems, pp. 147-152, 1993.

[2] C. R. Das, P. Mohapatra, and C. Yu, "Allocation-Based Subcube-Dependability for MIN-Based Multiprocessors," IEEE Workshop on Fault-Tolerant Parallel and Distributed Systems, pp. 124-131, July 1992.

[1] P. Mohapatra and C. R. Das, "A Performance Model for Cluster-Based Multiprocessors," International Symposium on Computer Architecture, May 1992, (poster).

TUTORIALS

[22] Video over Wireless, KRNET 2013, Seoul, South Korea, June 2013.

[21] Wireless Mesh Networks, IEEE ISWCS, Reykjavik, Iceland, October 2008.

[20] Wireless Mesh Networks, IEEE PIMRC, Cannes, France, September 2008.

[19] Wireless Mesh Networks, IEEE AICCSA, Doha, Qatar, March 2008.

[18] Wireless Mesh Networks, University of Pisa, Italy, March 2007.

[17] Wireless Mesh Networks, Institute of Advanced Studies, IMT Lucca, Italy, March 2007.

[16] Wireless Mesh Networks, GLOBECOM, San Francisco, December 2006.

[15] Wireless Mesh Networks, ICC, Istanbul, Turkey, June 2006.

[14] Wireless Mesh Networks, ACM MobiHoc, Florence, Italy, May 2006.

[13] Wireless Mesh Networks, IEEE Computer Society, Tutorial Now, Mar. 2006.

[12] Wireless Mesh Networks, COMSWARE, Delhi, India, Jan. 2006.

[11] Wireless Mesh Networks, International Conference on Broadband Networks (Broadnets 2005), Boston, Oct. 2005.

[10] Mobile Ad Hoc and Sensor Networks, Australian Telecommunications Networks and Applications Conference (ATNAC), Sydney, Dec. 2004.

[9] Mobile Ad Hoc and Sensor Networks, IEEE International Conference on Communications Systems (ICCS), Singapore, Sept. 2004.

[8] Mobile Ad Hoc Networks, IFIP Networking 2004, Athens, Greece, May 2004.

[7] Ad Hoc and Sensor Networks, IEEE High Performance Computing, Hyderabad, India, Dec. 2003.

[6] Ad Hoc and Sensor Networks, IEEE International Conference on Networks, Sydney, Australia, September 2003.

[5] Infrastructure-less Wireless Networks, King Mongkut Institute of Technology, North Bangkok, Thailand, Aug. 2003.

[4] Mobile Ad Hoc and Sensor Networks, IEEE Conference on High Speed Networks and Multimedia Communications, Estoril, Portugal, July 2003.

[3] QoS in the Internet and Internet Servers, IEEE High Performance Computing, Hyderabad, India, Dec. 2001.

[2] QoS in the Internet and Internet Servers, IEEE International Symposium on Intelligent Multimedia, Video and Speech Processing, Hong Kong, May 2001.

[1] Service Differentiation in Internet and Internet Servers, IEEE International Conference on Networks, Singapore, September 2000.

KEYNOTE ADDRESSES AND DISTINGUISHED LECTURES

[38] “Security of Internet of Things,” International Symposium on Wireless Personal Multimedia Communications, 2023.

[37] “Moving Target Defense for Adversarial Machine Learning,” ACM CCS Workshop on Moving Target Defense, 2021.

[36] “Vulnerability in Federated Learning,” IEEE Network Architecture and Storage Conference, 2021.

[35] “Millimeter wave for Smart Sensing,” 5G and Beyond Symposium, NIT Rourkela, 2020.

[34] “IoTs for Precision Agriculture,” Vaibhav Summit, Government of India, 2020.

[33] “Role of Land Grant Universities in Biodefense and Agro-defense,” Testified at a public hearing of a Bipartisan Commission on Biodefense, Denver, 2019.

[32] “Innocent Vulnerabilities: A Case for IoT Security,” Keynote Address, Future Networking Symposium at UNSW, Sydney, 2019.

[31] “Innovations in SmartSensing,” CITRIS Research Exchange, University of California at Berkeley, 2019.

[30] “Security in Internet of Things,” Distinguished Cybersecurity Seminar, University of Pittsburg, 2018.

[29] “Security in Internet of Things,” Keynote Address, Summer School of CSIRO, Melbourne, Australia, 2018.

[28] “Security in Internet of Things,” Keynote Address, IEEE ANTS Conference, Bhubaneswar, India, 2017.

[27] “SmartSensing using SmartSensors,” Keynote Address, International Conference on Computing, Analytics, and Networking, Bhubaneswar, India, 2017.

[26] “SecureSensing using SmartSensors,” Keynote Talk, IEEE TrustComm, Sydney, Australia, 2017.

[25] “SimpleSensing using SmartSensors,” Keynote Talk, International Conference on Advanced Computing and Intelligent Engineering, Bhubaneswar, India, 2016.

[24] “SimpleSensing using SmartSensors,” Distinguished Lecture, Shanghai Maritime University, China, 2016.

[23] “SimpleSensing using SmartSensors,” Distinguished Lecture, SRM University, India, 2016.

[22] “SmartSensing using SmartSensors,” Keynote Address, IEEE ANTS Conference, Kolkata, India, 2015.

[21] “SmartSensing using SmartSensors,” Keynote Address, IEEE ICPADS Conference, Melbourne, Australia, 2015.

[20] “SmartSensing using SmartSensors,” Keynote Address, IEEE WOWMOM Conference, Boston, USA, 2015.

[19] “Privacy in Public and Security without Barriers,” Plenary Lecture, IT Security Symposium, Davis, USA, 2015.

[18] “SmartSensing using SmartSensors,” ACM Distinguished Lecture, Southwest University, Chongqing, China, 2015.

[17] “SmartSensing using SmartSensors,” Keynote Address, Joint Conference of IEEE Mobile Cloud, IEEE Could-Based Big Data Summit, and IEEE Symposium on Service-Oriented System Engineering, San Francisco, 2015.

[16] “Privacy in Public and Security without Barriers,” Distinguished Lecture, Croucher Foundation Advanced Study Institute, Hong Kong, 2014.

[15] “Digital Security Through Physical Sensing,” Keynote Address, IEEE CNS Workshop on Physical-Layer Methods for Wireless Security, San Francisco, 2014.

[14] “Evaluating Mobile Video and Mobile Applications,” Plenary Address, IEEE International Conference on Intelligent Sensors, Sensor Networks and Information Processing, Singapore, April, 2014.

[13] “Evaluating Mobile Video and Applications,” Keynote Address, International Symposium on IT Convergence Engineering, Pohang, Korea, June 2013.

[12] “Mobile Video Quality and Profiling Smartphone Applications,” Distinguished Lecture Series, Kumoh National Institute of Technology, Korea, June 2013.

[11] “Trust in Multihop Wireless Networks,” Keynote Address, Hotmesh Workshop, IEEE WOWMOM, San Francisco, CA, June 2012.

[10] “Security and Quality Provisioning in Wireless Networks,” Keynote Address, International Conference on Mobile Wireless Networks, Beijing, Dec. 2011.

[9] “Security and Quality Provisioning in Wireless Networks,” Distinguished Lecture Series, University of Nebraska-Lincoln, Dec. 2011.

[8] “Securing Wireless Networks by Exploiting Wireless Characteristics,” Keynote Address, International Symposium on IT Convergence Engineering, Pohang, Korea, July 2011.

[7] “QuRiNet Testbed and Leveraging Research in Wireless Mesh Networks,” Keynote Address, IEEE International Conference on Advanced Information Networking and Applications (AINA), Singapore, March 2011.

[6] “Advances in Wireless Networks,” Keynote Address, National Conference on Computer Network Education, Nanjing, China, Dec. 2010.

[5] “QuRiNet and Related Research on Wireless Mesh Networks,” Keynote Address, IEEE HotMesh Workshop, Kos Island, Greece, June 2009.

[4] “QuRiNet and Related Research on Reliable Wireless Mesh Networks,” Keynote Address, CARMEN Workshop, ICT-Mobile Summit, Santander, Spain, June 2009.

[3] “Wireless Sensor Networks: A Sense of the Future,” Plenary Address, Australian Telecommunications and Networking Conference (ATNAC), Sydney, Dec. 2004.

[2] “Energy, Quality, and Trust in Mobile Ad Hoc Networks,” Keynote Address, Trusted Internet Workshop, Hyderabad, India, December 2003.

[1] “Service Differentiation in Web Servers,” Keynote Address, ICPP Workshop on Distributed Multimedia Systems, Toronto, August, 2000.

INVITED TALKS/PANELS

[110] “Vulnerability in Federated Learning,” Indian National Academy of Engineering,” SOA University, Bhubaneswar, March 2022.

[109] “Robust Authentication in IoTs,” Computer Science Department, University of Sydney, August 2019.

[108] “Smartsensing using SmartSensors,” Computer Science Department, Shanghai Jiatong University, March 2019.

[107] “Authentication in IoTs,” Computer Science Department, Shanghai Maritime University, March 2019

[106] “Smartsensing using SmartSensors,” Computer Science Department, University of Nevada, Reno, April 2017.

[105] “Smartsense and Security using SmartSensors,” Cybersecurity Research Center, Old Dominion University, November 2016.

[104] “Smartsensing using SmartSensors,” Microsoft Research - Asia, Beijing, China, October 2016.

[103] “Smartsensing using Simple Sensors,” University of Central Florida, February 2016.

[102] “Game-Theoretic Models for Advanced Persistent Threats,” University of Southern California, February 2016.

[101] “Smartsensing using Smartphones,” C V Raman College of Engineering, Bhubaneswar, India, December 2015.

[100] “Internet of Things: Facts, Hype, and Applications,” Panelist, IEEE MASS, October 2015.

[99] “Smartsensing using Smartphones,” University of Illinois at Urbana-Champaign, Illinois, October 2015.

[98] “On Exploiting Sensing Elements of Smartphones,” Singapore Management University, Singapore, April 2014.

[97] “Evaluating Mobile Video and Applications,” Arizona State University, Tempe, AZ, February 2014.

[96] “Evaluating Mobile Video Quality and Applications,” University of Edinburgh, Scotland, August 2013.

[95] “Evaluating Mobile Video Quality and Applications,” King’s College, London, July 2013.

[94] “Evaluating Mobile Video Quality and Applications,” Imperial College, London, July 2013.

[93] “Mobile Video Quality and Smartphone App Profiling,” ETRI, Korea, May 2013.

[92] “Profiling Smartphone Applications,” Future Communications Technology, Seoul, South Korea, May 2013.

[91] “Mobile Video Quality and Smartphone App Profiling,” Seoul National University, Korea, April 2013.

[90] “Mobile Video Quality and Smartphone App Profiling,” Yonsei University, Korea, April 2013.

[89] “Mobile Video Quality and Smartphone App Profiling,” KAIST, Korea, March 2013.

[88] “Maintaining Privacy in Public,” UNSW Panel Discussion, Sydney, November 2012.

[87] “Mobile Video Quality and Smartphone App Profiling,” University of Washington, November 2012.

[86] “Physical Layer Assisted Security,” Annual Computer Communications Workshop (CCW), October 2012.

[85] “Quality and Security Provisioning in Wireless Networks,” KAIST, Korea, August 2012.

[84] “Quality and Security Provisioning in Wireless Networks,” AMRITA University, India, December 2011.

[83] “QuRiNet Testbed,” CITRIS, University of California, Berkeley, CA, September 2011.

[82] “Quality and Security in Wireless Networks,” Broadcom Corporation, CA, September 2011.

[81] “QuRiNet and Related Research,” University of Sydney, Australia, August 2011.

[80] “Securing Wireless Networks by Exploiting Wireless Characteristics,” University of New South Wales, Australia, August 2011.

[79] “Securing Wireless Networks by Exploiting Wireless Characteristics,” National ICT of Australia (NICTA), Sydney, Australia, August 2011.

[78] “Securing Wireless Networks by Exploiting Wireless Characteristics,” University of Auckland, New Zealand, August 2011.

[77] “Internet of Things,” Infocom 2011 Panel Discussion, Shanghai, China, April 2011.

[76] “Related Research on Wireless Mesh Networks,” Yonsei University, South Korea, February 2011.

[75] “QuRiNet and Related Research on Wireless Mesh Networks,” Southeastern University, Nanjing, China, December 2010.

[74] “QuRiNet and Related Research on Wireless Mesh Networks,” CEWIT-Korea, Incheon September, 2010.

[73] “Research on Wireless Mesh Networks,” Department of Electrical and Computer Engineering, Iowa State University, May 2010.

[72] “QuRiNet and Related Research on Wireless Mesh Networks,” AT&T Research, San Ramon, CA, April 2010.

[71] “QuRiNet and Related Research on Wireless Mesh Networks,” University College Dublin, Ireland, April 2010.

[70] “QuRiNet and Related Research on Wireless Mesh Networks,” Hewlett Packard Labs, Palo Alto, CA, March 2010.

[69] “Advances on Wireless Mesh Networks,” Panel, Hot Mesh Workshop, Kos Island, Greece, June 2009.

[68] “Carrier Grade Wireless Mesh Networks,” Panel, CARMEN Workshop, ICT-Mobile Summit, Santander, Spain, June 2009.

[67] “QuRiNet and Related Research on Wireless Mesh Networks,” Universidad Carlos III de Madrid, Spain, June 2009.

[66] “Experimental Resource Management in Wireless Mesh Networks,” Department of Computer Science, Keynote Talk, International Conference on Information Technology (ICIT), December 2008.

[65] “QuRiNet Test-bed and Related Research on Resource Management in Wireless Mesh Networks,” Department of Computer Science, Trinity College, Dublin, Ireland, October 2008.

[64] “QuRiNet Test-bed and Related Research on Resource Management in Wireless Mesh Networks,” Department of Computer Science, Yonsei University, South Korea, Aug 2008.

[63] “QuRiNet Test-bed and Related Research on Resource Management in Wireless Mesh Networks,” Department of Computer Science, Seoul National University, July 2008.

[62] “QuRiNet Test-bed and Related Research on Resource Management in Wireless Mesh Networks,” Department of Computer Science, University of Memphis, April 2008.

[61] “QuRiNet Wireless Mesh Networks,” SPIE Photonic West, San Jose, Jan. 2008.

[60] “Experimental Study of Resource Management in Wireless Mesh Networks,” WINLAB, Rutgers University, Aug. 2007.

[59] “QuRiNet Test-bed and Related Research on Resource Management in Wireless Mesh Networks,” Samsung Institute of Advanced Technology, South Korea, Aug. 2007.

[58] “QuRiNet Test-bed and Related Research on Resource and Quality Management in Wireless Mesh Networks,” Aoju University, South Korea, Aug. 2007.

[57] “QuRiNet Test-bed and Related Research on Sensor Networks,” ETRI, Daejon, South Korea, Aug. 2007.

[56] “QuRiNet Test-bed and Related Research on Resource and Quality Management in Wireless Mesh Networks,” POSTECH University, South Korea, July 2007.

[55] “QuRiNet Test-bed and Resource Management WiFi/WiMAX Mesh Networks,” Yonsei University, South Korea, July 2007.

[54] “QuRiNet Test-bed and Related Research on Resource Management in Wireless Mesh Networks,” Korea University, South Korea, July 2007.

[53] “QuRiNet Test-bed and Related Research on Resource Management in Wireless Mesh Networks,” Korea Telecom, South Korea, July 2007.

[52] “QuRiNet Test-bed and Related Research on Resource Management in Wireless Mesh Networks,” Seoul National University, South Korea, July 2007.

[51] “Wireless Mesh Network: An Application Perspective,” California State University, Sonoma, April 2007.

[50] “Quail Ridge Wireless Mesh Network,” University of Padova, Italy, December 2006.

[49] “Quail Ridge Wireless Mesh Network,” California State University, Sonoma, September 2006.

[48] “Quail Ridge Wireless Mesh Network,” National ICT Australia, Sydney, August 2006.

[47] “Wireless LAN, Ad Hoc, and Mesh Networks,” Winter School, Center for Mobile Computing, Jadavpur University, India, Jan. 2006.

[46] “Advances in Wireless Mesh Networks,” Panelist, International Conference on Ad Hoc and Sensor Networks (SECON 2005), San Jose, Sept. 2005.

[45] “Target Tracking and Surveillance using Sensor Networks,” IEEE/NATEA Annual Conference, Santa Clara, May 2005.

[44] “Target Tracking and Surveillance using Sensor Networks,” Department of Computer Science and Engineering, The Pennsylvania State University, March 2005.

[43] “Target Tracking and Surveillance using Sensor Networks,” Department of Electrical Engineering, University of Pennsylvania, March 2005.

[42] “Sensor Networks: A Sense of the Future,” School of Computer Engineering, Nanyang Technological University, Singapore, March 2005.

[41] “Target Tracking and Surveillance using Sensor Networks,” University of Sydney, Sydney, Dec. 2004.

[40] “Target Tracking and Surveillance using Sensor Networks,” University of Technology, Sydney, Dec. 2004.

[39] “Target Tracking and Surveillance using Sensor Networks,” University of New South Wales, Sydney, Dec. 2004.

[38] “A Sense of the Future of Sensor Networks,” EHS Symposium, Global Entropolis, Singapore, October 2004.

[37] “Target Tracking and Surveillance using Sensor Networks,” School of Computer Engineering, Nanyang Technological University, Singapore, September 2004.

[36] “Target Tracking and Surveillance using Sensor Networks,” Institute for Infocomm Research (I2R), Singapore, August 2004.

[35] “Target Tracking and Surveillance using Sensor Networks,” School of Computing, National University of Singapore, July 2004.

[34] “Target Tracking Sensor Networks,” Nokia Research Center, California, April 2004.

[33] “Quality and Performance Tradeoff in Target Tracking Sensor Networks,” MOBWISER Workshop, National University of Singapore, March 2004.

[32] “Target Tracking and Surveillance in Sensor Networks,” NSF Workshop on Theoretical and Algorithmic aspects of Sensor, Ad hoc Wireless and Peer-to-Peer Networks, February, 2004.

[31] “Mobile Ad Hoc Networks,” Silicon Institute of Technology, Bhubaneswar, India, December, 2003.

[30] “Performance Enhancement of Routing in Mobile Ad Hoc Networks,” Department of Computer Science, University of Hyderabad, December 2003.

[29] “Overlay Service Networks: Routing and Topology Considerations,” Hewlett Packard Laboratories, Palo Alto, CA, November 2003.

[28] “On Improving Performance of Routing in Mobile Ad hoc Networks,” Department of Computer Science and Engineering, Arizona State University, October 2003.

[27] “Performance Improvement of Routing in Mobile Ad hoc Networks,” Kesarsat University, Bangkok, Thailand, July 2003.

[26] “Mobile Ad Hoc Networks for Internet Applications: Real or Hype,” Panel Moderator, IEEE Workshop on Internet Applications, San Jose, June 2003.

[25] “Enhancing Routing Performance of Mobile Ad Hoc Networks,” Department of Computer Science, Indiana University-Purdue University of Indianapolis, February 2003.

[24] “On Improving the Performance of Routing in Mobile Ad Hoc Networks,” Institute for Communications Research, Singapore, August 2002.

[23] “Routing in Mobile Ad Hoc Networks,” School of Computer Engineering, Nanyang Technological University, Singapore, August 2002.

[22] “On Improving the Performance of Routing in Mobile Ad Hoc Networks,” Department of Electrical and Computer Engineering, National University of Singapore, August 2002.

[21] “Efficient Packet Marking Techniques in Differentiated Services Internet,” Department of Electrical and Computer Engineering, Oregon State University, March 2001.

[20] “QoS Support in Internet and Web Servers,” Department of Electrical and Computer Engineering and Computer Science, Univ. of Cincinnati, October 2000.

[19] “WebGraph: A Framework for Managing Dynamic Web Requests,” Polyphasic, Inc., September 2000.

[18] “Service Differentiation in Internet and Internet Servers,” Indian Institute of Technology, Delhi, India, Dec. 1999.

[17] “Service Differentiation in Internet and Internet Servers,” International Conference of Information Technology, Bhubaneswar, India, Dec. 1999.

[16] “Bus Traffic Characterization of SPECweb96 Benchmark,” Server Architecture Laboratory, Intel Corporation, Beaverton, Oregon, July 1999.

[15] “Admission Control and Stream Scheduling in Multimedia Systems,” Department of Computer Science and Engineering, University of California at Riverside, March, 1999.

[14] “Resource Management in Multimedia Storage Servers,” Department of Computer Science and Engineering, Michigan State University, February, 1999.

[13] “Admission Control and Stream Scheduling in Multimedia Systems,” Department of Computer Science and Engineering, Pennsylvania State University, January, 1999.

[12] “A Framework for Scalable Multimedia File System,” Department of Electrical and Computer Engineering, University of Minnesota, December, 1998.

[11] “Scalable Multimedia File Systems,” Department of Electrical Engineering, University of Rhode Island, October 1998.

[10] “Multimedia File Systems,” Panasonic Information Networking Technology Laboratory, Panasonic Technologies Inc., July 1998.

[9] “Application-Aware Service Differentiation in Internet,” Panasonic Information Networking Technology Laboratory, Panasonic Technologies Inc., July 1998.

[8] “Scheduling Issues in Multimedia Storage Servers,” Department of Electrical and Computer Engineering, University of Wisconsin, Madison, May 1998.

[7] “Efficient Processor Management Schemes for Parallel Computers," Department of Electrical and Computer Engineering, University of Massachusetts at Amherst, March 1997.

[6] “Multicasting in Multicomputers,” Center for Advanced Computer Studies, University of Southwestern Louisiana, LA, October 1996.

[5] “Activities of the Advanced Computer Architecture Research Group," Hewlett Packard Research Laboratories, Palo Alto, CA, August 1996.

[4] “An Integrated Study of Allocation, Scheduling, and Routing Schemes in Parallel Computers," Department of Computer Science, Hong Kong University of Science and Technology, May 1996.

[3] “An Integrated Processor Management Scheme for Parallel Computers,” Department of Electrical Engineering and Computer Science, University of Minnesota, April 1996.

[2] “An Integrated Approach to Processor Allocation, Job Scheduling, and Message Routing in Parallel Computers," Department of Computer Science, Iowa State University, November 1995.

[1] “An Integrated Approach to Processor Management in Parallel Computers," Department of Computer Science, Texas A&M University, TX, October 1995.

GRADUATE STUDENTS

Doctoral Dissertations:

[44] Anshuman Chhabra, *Towards Robust and Fair Machine Learning*, 2023.

[43] Zheng Fang, *System-Level Security Analysis of IoTs*, 2022.

[42] Huanle Zhang, *Accelerating Vision Systems on Mobile Devices*, 2020.

[41] Tianbo Gu, *Wireless Security for Supporting Internet of Things*, 2020.

[40] Abhishek Roy, *Multi-Point Bandit Algorithms for Nonstationary Online Nonconvex Optimization*, 2020.

[39] Zhicheng Yang, *Towards 60 GHz Millimeter-wave WLANs and Smart Sensing*, 2019.

[38] Hao Fu, *Detecting Malicious Behaviors in Mobile Applications*, 2019.

[37] Muchen Wu, *Context Determination from Cyber-Physical Sensing*, 2019.

[36] Xiaotao Feng, *Game-Theoretic Models and Behavioral Studies for Cybersecurity*, 2019.

[35] Yunze Zeng, *Enriching WLANs with Advanced Sensing and Networking Applications*, 2018.

[34] Aveek Das, *Context-Aware Information Mining for Wireless Networks*, 2018.

[33] Pengfei Hu, *Performance and Security Enhancements of Wireless Networks through Visible Light and Inaudible Sound*, 2018.

[32] Anjan Goswami, *Machine-Learned Ranking Algorithms for E-Commerce Search and Recommendation Algorithms*, 2018.

[31] Jindan Zhu, *Improving Mobile Services through Multi-Context Analysis*, 2017.

[30] Rajarajan Sivaraj, *Radio Resource Management in Advanced OFDMA-based Cellular Networks*, 2016.

[29] Ningning Cheng, *Investigating Privacy Leakage in Mobile Wireless Networks*, 2016.

[28] Li Zhang, *Optimizing Resource Efficiency of Smartphone Apps through Characterization and Datamining Approaches*, 2015.

[27] Eilwoo Baik, *Enhanced Video Communications over Wireless Networks*, 2015.

[26] Shraboni Jana, *Interactive Multimedia Services in Mobile Wireless Networks*, 2015.

[25] Shaxun Chen, *Enhancing Wireless Security through Cross-Layer Approaches*, 2014.

[24] Chao-Chih Chen, *Practical Management as a Service (MaaS) Substrate for Data Center Network*, 2014.

[23] Xinlei Wang, *Provenance Based Information Trust in Wireless and Distributed Networks*, 2014.

[22] Kefeng Tan, *Design and Implementation of Spectrum-Aware Wireless Multimedia Communications System*, 2013.

[21] Xiaolin Cheng, *Enhancing Quality of Video Services over Wireless Networks*, 2012.

[20] Debalina Ghosh, *Scheduling and Resource Allocation in OFDMA Wireless Networks*, 2012.

[19] An Chan, *Multimedia Communications over Wireless Networks*, 2012.
(Winner of the Best Graduate Researcher Award)

[18] Paul Congdon, *Exploiting Characteristics of Data Centers to Enhance Ethernet Switching*, 2012.

[17] Hua Yu, *Capacity Enhancement and Reliability of Wireless Mesh Networks*, 2010.

[16] Casey Deccio, *Quantifying and Improving DNS Availability*, 2010.

[15] Minh Huynh, *Next Generation of Robust Carrier Ethernet*, 2010.

[14] Daniel Wu, *Deployment and Performance Enhancement of Wireless Mesh Networks*, 2010.

[13] Dhruv Gupta, *Managing Wireless Mesh Networks: A Measurement Based Approach*, 2010.

[12] Kurtis B. Kredo, *Networking Support for Underwater Wireless Networks*, 2010.

[11] Ashima Gupta, *Scheduling for Energy Conservation and Quality Enhancement in Multihop Wireless Networks*, 2009.

[10] Amit Sahoo, *Large-Scale Failures in the Internet – Characterization, Implications, and Recovery*, 2009.

[9] Lihua Yuan, *Towards Network Verification and Introspection*, 2008.

[8] Jian Li, *Quality of Service Provisioning in Multihop Ad Hoc Networks*, 2006.

[7] Chao Gui, *Routing Performance and Power Conservation in Ad Hoc and Sensor Networks*, 2005.
(Winner of Best Graduate Researcher Award, Best Dissertation Award)

[6] Zhi Li, *Resiliency and QoS Support in Multicasting and Overlay Networks*, 2005.

[5] Huamin Chen, *Web Server Performance Improvement and QoS Provisioning,* 2003.

[4] Baijian Yang, *Supporting Multicast in Scalable QoS Frameworks,* 2002.

[3] Xiangping Chen, *A Framework for Service Differentiating Internet Servers,* 2000.

[2] Vara Varavithya, *Interprocessor Communication in Multicomputer Systems,* 1998.
(Recipient of Graduate Research Excellence Award)

[1] Chung-yen Chang, *Processor Management Techniques for Multicomputer Systems,* 1997.
(Recipient of Graduate Research Excellence Award)

Masters Degree Theses:

[28] Manisha Suresh*, Emotion-Based ADL Detection, December 2022.*

[27] Xixi Liran*, Motion Detection and Classification Using Millimeter Wave, June 2016.*

[26] Chao Xu, *A Smart Watch Based Gesture Recognition System, June 2015.*

[25] Lu Cai, *Mobile App for Detection of Door Openings in Buildings, June 2015.*

[24] Christopher Stover, *Mobile App to Determine Thumb Movements, Dec. 2014.*

[23] Victor Omwando, *Evaluating Perceptual Video Quality for Mobile Clients in 802.11n Networks, June 2013.*

[22] Soumya Mishra, *Secured Routing in Mobile Ad hoc Networks, June 2013.*

[21] Stephanie Liese, *Experimental Characterization and Implementation of a Self-Organizing Multi-Radio Wireless Mesh Network, May 2006.*

[20] Eric Thomas, *Location-Based Authentication Using Wireless LANs, 2005*.

[19] Shilpi Gautam, *QoS in Wireless Mesh Using Channel Scheduling Schemes, 2005*.

[18] Fay Hui, *Experimental Characterization of Multi-hop Communications in Vehicular Ad Hoc Network, 2005*.

[17] Mohit Gupta, *A Novel Addressing Mechanism for Vehicular Networks, 2004.*

[16] Amit Sahoo, *TCP Modification to Support Differentiated Services Over Internet, 2002.*

[15] Udaykiran Vallamsetty, *E-Commerce Traffic Characterization,* 2001.

[14] Fugui Wang, *End-to-End QoS Support in Differentiated Services Internet,* 2000.

[13] Wei Chen, *Design and Implementation of a Continuous Network File System,* 1999.

[12] Zhiqi Liu, *System Architecture for Multimedia File Server,* 1999.

[11] Daphna Nathanson, *Scheduling Real-Time Periodic Tasks in Multiprocessor Systems,* 1998.
(Recipient of NSF Graduate Research Fellowship)

[10] Hon-Chi Ng, *Dynamic Branch Decoupled Architecture,* 1998.

[9] Forest Jensen, *Reduced Program Counter Power Consumption with Gray Encoding,* 1998.

[8] Oyvind Haehre, *Branch Decoupled Architecture,* 1998.

[7] Xiaoye Jiang, *Efficient Admission Control and Stream Scheduling Algorithms for Multimedia Storage Servers,* 1997.

[6] Kee-Tai Kim, *Video-On-Demand Server Based on Hierarchical Storage Organization*, 1996.

[5] Sunil K. Mishra, *Dual Crosshatch Disk Array,* 1996

[4] Sudheer Vemulapalli, *Dynamic Disk Scheduling for Multimedia Storage Systems,* 1995.

[3] Jatin Upadhyay, *Efficient and Fault Tolerant Routing in Two Dimensional Mesh and Torus Networks,* 1995.
(Recipient of Graduate Research Excellence Award)

[2] Joel Wichgers, *Applying Fault-Tolerant Design Techniques to Critical, Computer-Based Aircraft Flight Control Systems,* 1995.

[1] Vara Varavithya, *Adaptive Wormhole Routing for Mesh Interconnection Networks*, 1994.

Currently Under Supervision:

Joyneel Vora	Ph.D.
Doreen Joseph	Ph.D.
Jinyue Song	Ph.D.
Sairamvinay Vijayaraghavan	Ph.D.
Nader Bouacida	Ph.D.

Hansol Ku	Ph.D.
Aditya Krishnan	Ph.D.
Dom Hu	Ph.D.

Post-Doctoral Students:

Petar Djukic	2007 – 2008
Kai Zeng	2008 – 2011 (Excellence in Postdoctoral Research Award, 2011)
Kannan Govindan	2009 – 2011
Amit Pande	2010 – 2015 (Excellence in Postdoctoral Research Award, 2012)
Wei Cheng	2011 - 2012
Parth Pathak	2012 – 2016 (Excellence in Postdoctoral Research Award, 2015)
Hongxing Li	2013 – 2014
Zizhan Zheng	2014 - 2016
Suman Bhunia	2017 – 2018
Debraj Basu	2018 - 2019
C. S. Ganesh	2020 – 2021
Naveen Sapavath	2021 – 2022
Abhishek Roy	2021 – 2022
Anshuman Chhabra	2023 -

UNIVERSITY COMMITTEE SERVICES AT UC DAVIS

Department Committees (subset of recent ones):

Department Executive Committee (2007-13),
Graduate Group Executive Committee (2010-13),
Chair of Faculty Search Committee (2013-14),
Chair of Graduate Group in Computer Science (2004-2007),
Graduate Admissions Committee (2001-2003)

College Committees (subset of recent ones):

Graduate Study Committee (2010-13),
Board Member of ETTC (2011-16),
Steering Committee Member of UCD/SNL/LLNL Open Campus Initiative (2011-15),
2020 Planning Committee Member (2012-13),
Faculty Personnel Committee (2013-14).

Campus-wide Committees (subset of recent ones):

Chancellor Leadership Council (2017-2023)
Budget Framework Advisory Committee (2019-)
Council of Deans (2016 - 17),
Chancellor's Cabinet (2013-2017),
Academic Council of Coordinating Deans (2013-)
Council of Deans and Vice-Chancellors (2013-present),
Chancellor's Council (2014-16),
Campus Community Council (2013-present),
STAIR – Entrepreneurial Proposal Review Panel (2014 -)

Data Science Institute (DSI) Advisory Committee (2014-)
Limited Submissions Review Committee (2014 -)
Joint Task Force for Research Units (2017)
Data Governance Committee (2017 -)

System-wide Committees (subset of recent ones):

Council of Vice Chancellors for Research (COVCR), 2018 –
Council of Cybersecurity, 2021 –
Search Committee for Vice President of Research and Innovation, 2019
Council of Graduate Deans, 2016-18

PROFESSIONAL ACTIVITIES

Editor-in-Chief	IEEE Transactions on Mobile Computing, Jan-2014 – Dec-2016
Member	IEEE Fellows Selection Committee, 2010, 2011, 2015, 2021
Editorial Board:	IEEE Transactions on Mobile Computing, 2007 - 2012 IEEE Transactions on Parallel and Distributed Systems, 2006 - 2010 ACM/Springer WINET Journal, 2004 – 2009 Ad Hoc Networks Journal, 2004 - 2009 IEEE Transactions on Computers, 1999 – 2003
Guest Editor:	ACM Transactions on Sensor Networks, Special Issue on Contact-free Smart-Sensing in AIoT, 2022 Ad Hoc Networks, 2011 IEEE Wireless Communications, 2008 IEEE Communications, 2007 IEEE Trans. on Mobile Computing, Special Section, Oct-Dec. 2004 IEEE Computer, Special Issue on Internet Data Centers, Nov. 2004 IEEE Network, Special Issue on Multicasting, January/February 2003 Performance Evaluation Review, ACM SIGMETRICS, September 2001 Performance Evaluation Review, ACM SIGMETRICS, September 2000
Steering Committee	IEEE INFOCOM, 2019 - 2023 IEEE SECON, 2005 - 2017 IEEE Trans. on Mobile Computing, 2011 – 13 COMSNETS, 2015 - 2018
General Chair	IEEE ICNP 2015 COMSNETS 2015 IEEE WOWMOM 2012 IEEE SECON 2011 International Conference on Wireless for Humanitarian Relief (2011)
Program Chair:	IEEE International Conference on Computer Communications and Networks (ICCCN), 2012. IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS), 2010.

IEEE International Symposium on a World of Wireless, Mobile, and Multimedia Networks (WoWMoM), 2009.
International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (QShine), 2006.
IEEE Workshop on Advances in Sensor Networks, 2006.
IEEE Sensor and Ad hoc Communications and Networking Conference (SECON), 2004
International Conference on Information Technology, India, 2001.
Workshop on Performance and Architecture of Web Servers, 2000, 2001

Program Vice-Chair: INFOCOM, 2004
IEEE Mobile Ad hoc and Sensor Systems (MASS), 2004
International Conference on Parallel Processing, 2001

TPC Area Chair:
ICNP 2010, 2011, 2012
INFOCOM 2008, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018

Program Committee Member:
INFOCOM, 2003 - 2017
MOBIQUITOUS 2005, 2006
MOBICOM, 2004, 2005, 2006, 2007, 2008
MOBIHOC 2006, 2007
Broadnets 2007, 2008
SECON 2004, 2005, 2006, 2008, 2009, 2010, 2011, 2012, 2013
ICNP 2008, 2009, 2010, 2011, 2013
International Communications Conference (ICC) 2008
WoWMoM 2006
Mobile Wireless Communications Networks (MWCN), 2004
Real Time Applications Symposium, 2004
ICON, 2004
IFIP Networking Conference, 2004, 2005
International Conference on Parallel and Distributed Systems, 2004
Wireless Communications and Networking Conference (WCNC), 2003
International World Wide Web Conference (Practice and Experience Track), 2003
Workshop on Trusted Internet Computing (with HiPC), 2002
International Conference on Distributed Computing Systems, 2001.
International Conference on Computer Communications and Networks, 2000.
International Conference on Computer Communications and Networks, 1999.
International Conference on High-Performance Computing, 1999.
International Conference on Parallel Processing, 1999.
International Workshop on Multimedia Network Systems, 1999.
International Conference on Computer Applications in Industry & Engineering, 1999
Workshop on Dependable Computer Systems, EUROMICRO Conference, 1998, 1999.
International Conference on Computer Design, 1997.
International Conference on Parallel and Distributed Computing Systems, 1996.

Referee and Panelists – Funding Agencies:
National Science Foundation
Hong Kong Research Grant Council
Singapore A*STAR

Science Foundation Ireland
Qatar National Research Foundation
Greek Ministry of Education

Referee – Several Journals and Conferences