



McCLELLAN NUCLEAR RESEARCH CENTER

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July 16th, 2018

Document Control Desk
U.S. Nuclear Regulatory Commission
1 White Flint North
11555 Rockville Pike
Rockville, MD 20852

Subject: University of California Davis McClellan Nuclear Research Center (MNRC) License Holder Appointment

Reference: Docket No. 50-607, Facility Operating License No. R-130

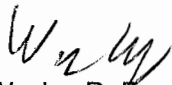
Dear Regulators,

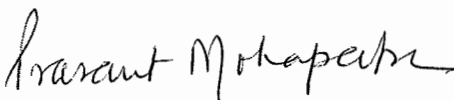
In accordance with the UCD/MNRC Technical Specifications Section 6.7.2C(3), effective July 2, 2018, Dr. Prasant Mohapatra is the Vice Chancellor for Office of Research (MNRC license holder) replacing the interim Vice Chancellor Dr. Cameron Carter.

Dr. Mohapatra has been briefed on his responsibilities as the MNRC license holder and has familiarized himself with the facility. Attached is his CV for review.

Please direct any questions or concerns to Dr. Wesley Frey, 916-614-6200 or wesfrey@ucdavis.edu.

Sincerely,


Wesley D. Frey PhD
Director, McClellan Nuclear Research Center


Prasant Mohapatra PhD
Vice Chancellor for Research

cc: Alexander Adams, U.S. NRC
Linh Tran, U.S. NRC

Prasant Mohapatra
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RESEARCH INTERESTS

Computer Networks, Wireless Networks and Mobile Systems, Sensor Networks, Wireless Security, Cyber Security, and Internet Quality of Support.

TEACHING EXPERIENCE

Undergraduate Courses:

Computer Networks
Computer System Architecture
Computer Organization
Senior Design Projects
Introduction to Computer Science

Graduate Courses:

Advanced Computer Networks
Wireless and Mobile Networks
Computer System Performance
Fault-Tolerant Systems
Computer Architecture

EDUCATION

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

PROFESSIONAL EXPERIENCE

2016 --	Dean of Graduate Studies, and Vice-Provost of Graduate Education
2003 --	Professor, Computer Science Department, 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

- Fellow of AAAS, 2013
- Fellow of the IEEE, 2010
- 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
- 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
- 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

CONSULTING ACTIVITIES AND INDUSTRIAL AFFILIATIONS

June 2015 -	Advisory Board Member, Seceon Networks, Inc.
Sept. 2012 - 2016	Advisory Board Member, EagleEyeMed, Inc.
Jan. 2010 -	Founder, Airpackets, LLC
Sept. 2009 - Apr. 2014	Co-Founder, Mapiz, Inc (Acquired in 2014)
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)

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

GRANTS AND CONTRACTS

- [71] P. Mohapatra (PI), \$1,195,000, Andrew W. Mellon Foundation, “Alliance for Multicampus 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), \$23.2M (plus \$25.0M for 5-yr extension), Army Research Laboratory, Cybersecurity Research Alliance, “Models for Enabling Continuous Reconfigurability of Secure Missions,” 2013-19. (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. Faloutsos, 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:

- [7] US Patent Pending: *WiFi-Based Person-Identification Technique for use in Smartspaces*, (With P. Pathak and Y. Zeng), June 2017.
- [6] US Patent Pending: *Energy-Efficient, Accelerometer-Based Hot-word Detection to Launch a Voice-Control System*, (With L. Zhang, M. Wu, L. Xiran, P. Pathak), April 2017.
- [5] US Patent Number 9,813,907: *Sensor-Assisted User Authentication*, (With S. Chen, A. Pande), November 2017.
- [4] US Patent Number: 9,733,088: *Signal Space Based Navigation*, (With S. Sen, K. H. Kim, J. Zhu), August 2017.
- [3] US Patent Number: 9,408,076: *Sensor-Assisted Biometric Authentication for Smartphones*, (With S. Chen, A. Pande), August 2016.
- [2] US Patent Number: 8,965,398: *Bluetooth Beacon Based Location Determination*, (With J. Zhu, K. Zeng, K. H. Kim), February 24, 2015.
- [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

- [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

- [107] H. Zhang, W. Du, P. Zhou, M. Li, and P. Mohapatra, "An Acoustic-based Encounter Profiling System," To appear in the IEEE Transactions on Mobile Computing.
- [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] 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.
- [104] 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.
- [103] 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," To appear in the IEEE/ACM Transactions on Networking.

- [102] 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.
- [101] 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 .
- [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.
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- [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 Healthcare (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.
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- [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. Kreda, 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.
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- [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.
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- [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%)
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- [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 BROADNETS, 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
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- [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.
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- [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.
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- [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%)
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- [65] M. Huynh and P. Mohapatra, "Etherlay: An Overlay Enhancement for Metro Ethernet Networks," ICC 2006.
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- [62] A. S. Sudhir, G. Manimaran, and P. Mohapatra, "Heterogeneous QoS Multicast in DiffServ-like Networks," International Conf. on Computer Communications and Networks, 2005.
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- [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%)
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- [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.
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KEYNOTE ADDRESSES AND DISTINGUISHED LECTURES

- [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 Cloud-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

- [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.

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- [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.
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- [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.
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- [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.
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- [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.
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- [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.
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- [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.
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- [20] "QoS Support in Internet and Web Servers," Department of Electrical and Computer Engineering and Computer Science, Univ. of Cincinnati, October 2000.
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- [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.
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- [9] "Application-Aware Service Differentiation in Internet," Panasonic Information Networking Technology Laboratory, Panasonic Technologies Inc., July 1998.

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- [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:

- [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 Data mining 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:

[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:

Aveek Das	Ph.D.
Xiaotao Feng	Ph.D.
Hao Fu	Ph.D.
Anjan Goswami	Ph.D.
Tianbo Gu	Ph.D.
Pengfei Hu	Ph.D.
Josiah Jee	Ph.D.
Abhishek Roy	Ph.D.
Muchen Wu	Ph.D.
Zhicheng Yang	Ph.D.
Yunze Zeng	Ph.D.
Huanle Zhang	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 -

UNIVERSITY COMMITTEE SERVICES

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-present), Steering Committee Member of UCD/SNL/LLNL Open Campus Initiative (2011-present), 2020 Planning Committee Member (2012-13), Faculty Personnel Committee (2013-14).

Campus-wide Committees (subset of recent ones):

Chancellor's Cabinet (2013-present), Council of Deans and Vice-Chancellors (2013-present), Council of Vice Chancellors (2014-present), Campus Community Council (2013-present), Data Science Institute (DSI) Advisory Committee (2014-), Chancellor's Council (2015-present)

PROFESSIONAL ACTIVITIES

Editor-in-Chief	IEEE Transactions on Mobile Computing, Jan-2014 – Dec-2016
Member	IEEE Fellows Selection Committee, 2010, 2011, 2015
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:	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 SECON, 2005 - IEEE Trans. on Mobile Computing, 2011 – 13 COMSNETS, 2015 -
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
Workshop on Architectural and OS Support for Multimedia Applications, 1998.

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

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