

Prasant Mohapatra
Department of Computer Science
University of California
Davis, CA 95616

Email-1: pmohapatra@gmail.com
Tel. (530) 574-6372

E.mail-2: pmohapatra@ucdavis.edu
URL: <http://faculty.engineering.ucdavis.edu/mohapatra/>

RESEARCH INTERESTS

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

TEACHING EXPERIENCE

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

EDUCATION

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

PROFESSIONAL EXPERIENCE

| | |
|--------------|---|
| 2003 -- | Professor, Computer Science Department, University of California, Davis, CA |
| 2014 -- | 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 |
| 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 |
| 1998-1999 | Associate Professor, Electrical and Computer Engineering Department Iowa State University, Ames, IA 50011 |

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
- 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-
- 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:
 - IFIP Networking, 2014
 - ACM BodyNets, 2013
 - IEEE ICCCN, 2013
 - International Symposium on Wireless Personal Multimedia Communications, 2011.
 - IEEE Wireless Mobile Computing (WiMob) Conference, 2009

LITIGATION RELATED CONSULTING

- Patent Infringement case between US Ethernet Innovations and Savemart, *Topic: Ethernet Packet Forwarding*, 2011.
- Patent Infringement case between Rockus Wireless, Inc and Netgear, Inc., *Topic: Wireless Mesh Networks*, 2013 **(Gave Deposition)**
- Patent Re-Examination, Walker Digital LLC, *Topic: Remote Video Surveillance*, 2013
- Patent Inter Partes Review of Patent, Clouding LLC and Oracle, Inc., *Topic: Web Access on Pervasive Devices*, 2013
- Inter Partes Review of Patent, Clouding LLC and Oracle, Inc., *Topic: Dynamic Distributed Data Systems*, 2013
- Inter Partes Review of Patent, Clouding LLC and Oracle, Inc., *Topic: Key Management for Network Configurations*, 2013
- Inter Partes Review of Patent, Clouding LLC and Oracle, Inc., *Topic: Configuration of Dynamic Computing Environments*, 2013
- Inter Partes Review of Patent, General Growth, Westfield, etc. and George Peshchke, *Topic: Layout-Based Method for Map Navigation*, 2013.
- Patent Infringement case between Polaris Wireless and TruePosition, Inc, *Topic: Location based Services in Wireless Applications*, 2014.
- Inter Partes Review of Patent, Kinetics Technologies, Inc and Skyworks Solutions, Inc., *Topic: Integrated Devices with Serial Inputs for Pulses*, 2014.
- Inter Partes Review of Patent, Rackspace Hosting, Inc and Clouding IP, LLC, Inc., *Topic: Replica Synchronization Using Copy-on-Read*, 2014. **(Gave Deposition)**
- Inter Partes Review of Patent, Unified Patents Inc / SAP America Inc and Clouding IP, LLC, Inc., *Topic: Methods and Apparatus for File Synchronization and Updating Using a Signature List*, 2014. **(Gave Deposition)**
- Inter Partes Review, Arista Networks vs Cisco, 2015.

- Patent Invalidation Case, Apple vs IXI, 2015.
- Patent Invalidation Case, AT&T vs Intellectual Ventures, 2015.
- Inter Partes Review, Hulu vs CFRD, 2015 (**Gave Deposition**)
- Trade Secret Misappropriation, Broadcom vs Innovium, 2015 (**Gave Deposition**)
- Inter Partes Review, Google vs TLI, 2015 (**Gave Deposition**)

RECENT GRANTS AND CONTRACTS

- [25] 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)
- [24] P. Mohapatra (Co-PI), \$500,000, National Science Foundation, “Towards a User-Centric Battery Management System for Smartphones,” 2013-16. (Co-PI: Srikanth Krishnamurthy)
- [23] P. Mohapatra (PI), \$75,000, Hewlett Packard Company, “Location Based Communications and Services,” 2013-14.
- [22] P. Mohapatra (PI), \$150,000, National Science Foundation, “Deep Network Inspection,” 2012-14.
- [21] P. Mohapatra (PI), \$95,000, Hewlett Packard Company, “Location Based Communications and Services,” 2012-13.
- [20] P. Mohapatra (PI), \$119,500, US Army Research Laboratory, “Trusted Networks,” 2011-12.
- [19] P. Mohapatra (PI), \$195,000, US Army Research Office, “Mobility and Security in Wireless Networks,” 2011-12.
- [18] P. Mohapatra (PI), \$75,000, Hewlett Packard Company, “Location Based Communications and Services,” 2011-12.
- [17] P. Mohapatra (PI), Total \$35.5M, 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.
- [16] P. Mohapatra (Co-PI), \$65,000, Intel Corporation, “SWiM: Scalable Wireless Mesh Networks,” 2008-09 (PI: X. Liu).
- [15] P. Mohapatra (PI), \$200,000, National Science Foundation “Cross-layer Design for Streaming Video in Multihop Wireless Mesh Networks” 2008-11.
- [14] P. Mohapatra (PI), \$20,000, Intel Corporation “Diversity Research Program” 2008-09.
- [13] P. Mohapatra (Co-PI), \$65,000, Intel Corporation, “WiMO: Wireless Management Overlays” 2007-08 (PI: C. N. Chuah).

- [12] P. Mohapatra (PI), \$290,000, National Science Foundation, "Cooperative Security Mechanisms for DNS" 2007-10.
- [11] P. Mohapatra (PI), \$280,000, National Science Foundation, "QuRiNet: A Wide-Area Outdoor Mesh Test-bed" 2007-11 (Co-PIs: X. Liu, V. Boucher).
- [10] 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.
- [9] P. Mohapatra (PI), \$25,000, Hewlett Packard Company, "Video over Wireless Mesh Networks," 2007-08.
- [8] P. Mohapatra (Co-PI), \$70,000, Intel Corporation, "Management of Wireless Mesh Networks" 2006-07 (PI: C. N. Chuah).
- [7] P. Mohapatra (Co-PI), \$65,000, Intel Corporation, "Scalable Enterprise Mesh Networks," 2006-07 (PI: X. Liu).
- [6] P. Mohapatra (PI), \$150,000, Intel Corporation, "Trusted Autonomics," 2006-07.
- [5] P. Mohapatra (PI), \$40,000, Hewlett Packard Corporation, "QoS in Wireless Mesh Networks," 2005-2006.
- [4] P. Mohapatra (PI), \$70,000, Intel Corporation, "Wireless Management Overlays," 2005-2006 (with C. N. Chuah).
- [3] P. Mohapatra and G. Manimaran, \$360,000, National Science Foundation, "DiffServ-Aware Multicasting," 2003-2006.
- [2] P. Mohapatra, \$200,000, National Science Foundation (subcontract from UCLA), "Scalable Testbed for Next Generation Mobile Wireless Networking Technologies," 2003-2006.
- [1] P. Mohapatra and L. N. Bhuyan, \$441,645, National Science Foundation, "Scalable Software Systems for Large Internet Servers," 2003-2007.

PATENTS:

- [3] US Patent Pending: *Signal Space Based Navigation*, (With S. Sen, K. H. Kim, J. Zhu).
- [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.

RECENT TECHNICAL PUBLICATIONS [From over 300 Publications]

Selected Journal Papers

- [75] E. Baik, A. Pande, and P. Mohapatra, "Efficient MAC for Real-time Video Streaming over Wireless LAN," To appear in the ACM Transactions on Multimedia Computing Communications and Applications (TOMM).
- [74] C. Lyu, D. Gu, Y. Zeng, and P. Mohapatra, "PBA: Prediction-based Authentication for Vehicle-to-Vehicle Communications," To appear in the IEEE Transactions on Dependable and Secure Computing.
- [73] S. Chen, A. Pande, K. Zeng, and P. Mohapatra, "Live Video Forensics: Source Identification in Lossy Wireless Networks," To appear in the IEEE Transactions on Information Forensics and Security.
- [72] P. Pathak, R. Dutta, and P. Mohapatra, "On Availability-Performability Trade-off in Wireless Mesh Networks," To appear in the IEEE Transactions on Mobile Computing.
- [71] 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.
- [70] 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.
- [69] 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.
- [68] 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.
- [67] 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.
- [66] 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.
- [65] 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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