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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**

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 --	Distinguished Professor (2018), Computer Science Department, University of California, Davis, CA
2018 --	Vice Chancellor for Research, UC Davis, CA
2016 -- 2018	Dean and Vice-Provost of Graduate Studies, UC Davis, CA
2014 -- 2016	Associate Chancellor, University of California, Davis, CA
2013 -- 2014	Interim Vice-Provost and CIO, 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
- Distinguished Professor of UC Davis, 2019
- Distinguished Alumnus Award, National Institute of Technology, Rourkela, 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-
- 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 30<sup>th</sup> 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 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 of Patent, Arista Networks vs Cisco, 2015. **(Gave Deposition)**
- Patent Invalidation Case, AT&T Mobility vs Intellectual Ventures, 2015.
- Inter Partes Review of Patent, Hulu, Spotify vs CFRD, 2015 **(Gave Deposition)**
- Trade Secret Misappropriation, Broadcom vs Innovium, 2015 **(Gave Deposition)**
- Inter Partes Review of Patent, Google vs TLI, 2015 **(Gave Deposition)**
- Inter Partes Review of Patent, Dish Networks vs CFRD, 2015 **(Gave Deposition)**
- Inter Partes Review of Patent, Arista Networks vs Cisco, 2016 **(Gave Deposition)**
- Patent Infringement Case, SimpliVity vs Springpath, 2016.
- Inter Partes Review of Patent, Radware vs F5 Networks, 2016.
- Patent Non-Infringement Case, Cavium vs Alacritech, 2017.
- Inter Partes Review of Patent, SEVEN vs Google, 2018.
- Inter Partes Review of Patent - 1, KEYnetik vs Samsung, 2019 **(Gave Deposition)**.
- Inter Partes Review of Patent - 2, KEYnetik vs Samsung, 2019 **(Gave Deposition)**.

## RECENT GRANTS AND CONTRACTS

- [27] P. Mohapatra (Co-PI), \$48M, Army Research Laboratory, Cybersecurity Research Alliance, “Models for Enabling Continuous Reconfigurability of Secure Missions,” 2013-23.
- [26] P. Mohapatra (PI), \$200,000, Army Research Office, “Millimeter Wave Human Tracking and Activity Monitoring,” 2016-17.
- [25] P. Mohapatra (PI), \$575,000, Army Research Office, “Advanced Security Games for Cyber-Physical Systems,” 2015-19. (Co-PI: Ness Shroff).
- [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.
- [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,” 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:**

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

**RECENT TECHNICAL PUBLICATIONS [From over 350 Publications]**

**Selected Journal Papers**

- [69] 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.

- [68] 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.
- [67] 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.
- [66] 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*.
- [65] 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.
- [64] 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.
- [63] 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.
- [62] 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.
- [61] 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.
- [60] 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.
- [59] 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.
- [58] 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.
- [57] 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.

- [56] X. Wang, W. Cheng, P. Mohapatra, and T. Abdulzاهر, "Enabling Reputation and Trust in Privacy-Preserving Mobile Sensing," *IEEE Transactions on Mobile Computing*, Vol. 13, No. 12, pp. 2777-2790, Dec. 2014.
- [55] 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.
- [54] 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.
- [53] 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.
- [52] 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.
- [51] 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.
- [50] 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.
- [49] 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.
- [48] 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.
- [47] 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.
- [46] 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.
- [45] 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.
- [44] 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.
- [43] 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.

- [42] C.T. Deccio, J. Sedayao, K. Kant, and P. Mohapatra, "Quantifying DNS Namespace Influence," *Computer Networks*, Vol. 56, No. 2, pp. 780-794, 2012.
- [41] 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.
- [40] 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.
- [39] 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.
- [38] 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.
- [37] 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.
- [36] 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.
- [35] 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.
- [34] 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.
- [33] 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.
- [32] 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.
- [31] M. Huynh, S. Goose, and P. Mohapatra, "Resilience Technologies in Ethernet," *Computer Networks*, Vol. 54, Issue 1, pp. 57-78, Jan. 2010.
- [30] 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.

- [29] 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.
- [28] M. Huynh, S. Goose, and P. Mohapatra, "Spanning Tree Elevation Protocol," *Computer Communications*, vol. 32, Issue 4, pp. 750-765, March 2009.
- [27] 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.
- [26] 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.
- [25] 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.
- [24] M. Huynh and P. Mohapatra, "Metropolitan Ethernet Network: A Move from LAN to MAN," *Computer Networks*, vol. 51, pp. 4867-4894, Dec. 2007.
- [23] A. Gupta and P. Mohapatra, "Ultra Wide Band Medium Access Control Schemes," *Computer Networks*, vol. 51, pp. 2976-2993, August 2007.
- [22] 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.
- [21] 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.
- [20] K. Kredo and P. Mohapatra, "Medium Access Control in Wireless Sensor Networks," *Computer Networks*, Vol. 51, pp. 961-994, March 2007.
- [19] L. Zhi and P. Mohapatra, "On the Investigation of Overlay Service Topologies," *Computer Networks*, Vol. 51, Issue 1, pp. 54-68, Jan. 2007.
- [18] 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.
- [17] 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.
- [16] C. Gui and P. Mohapatra, "Hierarchical Multicasting Techniques and Scalability in Mobile Ad Hoc Networks" *Ad Hoc Networks Journal*, pp. 586-606, Sept. 2006.
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- [13] 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.
- [12] B. Yang and P. Mohapatra, "Multicasting in MPLS Domains," *Computer Communications Journal*, Vol. 27, pp. 162-170, February 2004.
- [11] 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.
- [10] H. Chen and P. Mohapatra, "Overload Control in QoS-Aware Web Servers," *Computer Networks*, vol. 42/1, pp. 119-133, 2003.
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- [8] Z. Li and P. Mohapatra, "QMBF: A QoS-Aware Multicast Routing Protocol," *Computer Communications Journal*, vol. 26/6, pp. 611-621, 2003.
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- [6] 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.
- [4] 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.
- [3] K. Kant and P. Mohapatra, "Current Research Trends in Internet Servers," *ACM Performance Evaluation Review*, pp. 5-7, September 2001.
- [2] 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.
- [1] K. Kant and P. Mohapatra, "Scalable Internet Servers: Issues and Challenges," *ACM Performance Evaluation Review*, September 2000.

### **Selected Conference Papers**

- [111] 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.

- [110] 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.
- [109] 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.
- [108] 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.
- [107] 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%).
- [106] H. Fu, Z. Zheng, S. Bose, M. Bishop, and P. Mohapatra, "LeakSemantic: Identifying Abnormal Sensitive Network Transmissions in Mobile Applications," IEEE INFOCOM, 2017.
- [105] 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.
- [104] 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.
- [103] H. Zhang, W. Du, P. Zhou, M. Li, and P. Mohapatra, "DopEnc: Acoustic-Based Encounter Profiling Using Smartphones," ACM MOBICOM 2016.
- [102] 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.
- [101] 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%)
- [100] A. Das, P. Pathak, C. N. Chuah, and P. Mohapatra, "Uncovering Privacy Leakage in BLE Network Traffic of Wearable Fitness Trackers," ACM HotMobile 2016.
- [99] 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.
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- [79] Y. Zeng, P. Pathak, and P. Mohapatra, "A First Look at 802.11ac in Action: Energy Efficiency and Interference Characterization," IFIP Networking, 2014. **Best Paper Award.**
- [78] A. K. Das, P. Pathak, C. N. Chuah, and P. Mohapatra, "Contextual Localization through Network Traffic Analysis," IEEE Infocom, 2014.
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- [70] 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.
- [69] 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.
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## **KEYNOTE ADDRESSES AND DISTINGUISHED LECTURES**

- [23] "Security in Internet of Things," Keynote Address, Summer School of CSIRO, Melbourne, Australia, 2018.
- [22] "Security in Internet of Things," Keynote Address, IEEE ANTS Conference, Bhubaneswar, India, 2017.

- [21] "SecureSensing using SmartSensors," Keynote Talk, IEEE TrustComm, Sydney, Australia, 2017.
- [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.
- [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.

**PROFESSIONAL ACTIVITIES**

- Editor-in-Chief            IEEE Transactions on Mobile Computing, 2014 - 17
- 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
- Steering Committee        IEEE SECON, 2005 - 2017  
IEEE Trans. on Mobile Computing, 2011 - 13
- General Chair                ICNP 2015  
COMSNETS 2015  
IEEE WOWMOM 2012  
IEEE SECON 2011
- Program Chair:              Several international conferences
- Program Committee Member: Several International Conferences
- Referee – Several Journals and Conferences