

List of WINLAB Publications and Talks

(2005 to Fall 2008)

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Acharya, A.	Ganu, S. and Misra, A.	Journal Paper	DCMA: A Label-Switching MAC for Efficient Packet Forwarding in Multi-hop Wireless Networks	Journal of Selected Areas in Communications (JSAC) Special Issue on Wireless Mesh Networks, Vol. 24, No. 11, pp. 1995-2004, November 2006.	Mobile Networks
Bhanage, G.	Zhang, Y., Seskar, I.	Conference Paper	On the Topology Creation for an Outdoor Wireless Grid	Proceedings of the ACM Fourteenth Annual International Conference on Mobile Computing and Networking (MOBICOM 2007), San Francisco, CA, September 2008, pp. 81-88.	Mobile Networks
Bhanage, G.	Zhang, Y., Trappe, W. and Howard, R.	Conference Paper	Roll Call: The Design for a Low Cost and Power Efficient Active RFID Asset Tracking System	Proceedings of The International Conference on Computer as a Tool (EUROCON 2007) Warsaw, Poland, September 2007, pp. 2521-2528.	Mobile Networks
Bhanage, G.	Zhang, Y.	Conference Paper	Relay MAC: A Collision Free and Power Efficient Reading Protocol for Active RFID Tags	Proceedings of the International Conference for Computer Communications (ICCCN 2006) Arlington, VA, October 2006, pp. 97-102.	Mobile Networks
Blanco, M.	Kokko, R., Ramachandran, K., Rangarajan, S. and Sundaresan, K.	Conference Paper	On the Effectiveness of Switched Beam Antennas in Indoor Environments	Proceedings of the 9 th Passive and Active Measurement (PAM) Conference, Cleveland, OH, April 2008, LNCS pp. 122-131.	Mobile Networks
Chandrasekaran, G.	Ergin, M., Gruteser, M., Martin, R., Yang, J. and Chen Y.	Conference Paper	DECODE: Detecting Co-Moving Wireless Devices	Proceedings of the IEEE 5 th International Conference on Mobile Ad Hoc and Sensor Systems (MASS 2008), Atlanta, GA, September 2008, pp. 315-320.	Mobile Networks
Chandrasekaran, G.	Ergin, M., Gruteser, M. and Martin, R.	Conference Paper	Bootstrapping a Location Service Through Geocoded Postal Addresses	Proceedings of the 3 rd International Symposium on Location and Context-Awareness (LoCA 2007), Oberpfaffenhofen, Germany, September 2007, pp. 1-16.	Mobile Networks
Das, S.	Raychaudhuri, D., Ramaswamy, K. and Wang, C.	Conference Paper	Adaptive Video Multicast over Wireless LANs	Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2006), Las Vegas, NV, April 2006, pp. 934-939.	Mobile Networks
Das, S.K.	Rose, C.	Book Chapter	Coping with Uncertainty in Mobile Wireless Networks	In <i>Emerging Location Aware Broadband Wireless Ad Hoc Networks</i> , Eds. R. Ganesh, S. Kota, K. Pahlavan, and R. Augusti, Chapter 12, pp. 189-204, Springer, 2005.	Mobile Networks
Datta, S.	Seskar, I., Demirhan, M., Mau, S-C. and Raychaudhuri, D.	Conference Paper	Ad-hoc extensions to the 802.15.3 MAC Protocol	Proceedings of the 6 th IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (WoWMoM 2005), Taormina/Giardini Naxos, June 2005, pp. 293-298.	Mobile Networks
Elnahrawy, E.	Francisco, J-A. and Martin, R.P.	Conference Paper	Adding Angle of Arrival Modality to Basic RSS Location Management Techniques	Proceedings of the IEEE International Symposium on Wireless Pervasive Computing (ISWPC 2007), San Juan, PR, February 2007, pp. 464-469.	Mobile Networks
Ergin, M.	Ramachandran, K. and Gruteser, M.	Journal Paper	An Experimental Study of Inter-Cell Interference Effects on System Performance in Unplanned Wireless LAN Deployments	Computer Networks (Elsevier), Vol. 52, Issue 14, pp. 2728-2744, October 2008.	Mobile Networks

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Ergin, M.	Gruteser, M., Luo, L., Raychaudhuri, D. and Liu, H.	Journal Paper	Available Bandwidth Estimation and Admission Control for QoS Routing in Wireless Mesh Networks	Computer Communications (Elsevier), Special Issue on Resource Management and Routing in Wireless Mesh Networks, Vol. 31, No. 7, pp.1301-1317, May 2008.	Mobile Networks
Ergin, M.	Ramachandran, K. and Gruteser, M.	Extended Abstract	Understanding the Effect of Access Point Density on Wireless LAN Performance	Proceedings of the 13 th ACM International Conference on Mobile Computing and Networking (MOBICOM 2007), Montreal, Quebec, Canada, September 2007, pp. 350-353.	Mobile Networks
Ergin, M.	Gruteser, M.	Conference Paper	Using Packet Probes for Available Bandwidth Estimation – A Wireless Testbed Experience (Poster)	Proceedings of the First ACM SIGMOBILE International Workshop on Wireless Network Testbeds, Experimental Evaluation and Characterization (WINTECH 2006, held with MOBICOM) Los Angeles, CA, 2006.	Mobile Networks
Ganu, S.	Ramachandran, K., Gruteser, M., and Seskar, I.	Conference Paper	Methods for Restoring MAC Layer Fairness in IEEE 802.11 Networks with Physical Layer Capture	Proceedings of the 2 nd International Workshop on Multi-hop Ad Hoc Networks (REALMAN 2006), Florence, Italy, May 2006.	Mobile Networks
Ganu, S.	Ott, M., Seskar, I., Raychaudhuri, D. and Paul, S.	Conference Paper	Architecture and Framework for Supporting Open Access Multi-User Wireless Experimentation	Proceedings of the IEEE International Conference on Communication System Software and Middleware (COMSWARE 2006), Delhi, India, January 2006, pp. 1-9.	Mobile Networks
Ganu, S.	Kremo, H., Howard, R. and Seskar, I.	Conference Paper	Addressing Repeatability in Wireless Experiments using ORBIT Testbed	Proceedings of the IEEE First International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (TRIDENTCOM 2005), Trento, Italy, February 2005, pp. 153-160.	Mobile Networks
Ganu, S.	Raychaudhuri, D.	Conference Paper	Integrating Short-Range Ad-Hoc Radio Technologies into Next-Generation Wireless Networks	Proceedings of the International Conference and Exposition on Communications and Computing (ICCC 2005), Kanpur, India, February 2005.	Mobile Networks
Gopal, S.	Paul, S.	Conference Paper	TCP Dynamics in 802.11 Wireless Local Area Networks	IEEE International Conference on Communications (ICC 2007), Glasgow, Scotland, June 2007, pp. 1905-1910.	Mobile Networks
Gopal, S.	Paul, S. and Raychaudhuri, D.	Conference Paper	Leveraging MAC-Layer Information for Single-Hop Wireless Transport in the Cache and Forward Architecture of the Future Internet	Proceedings of the 2 nd International Workshop on Wireless Personal and Local Area Networks (WILLOPAN) held in conjunction with COMSWARE 2007, Bangalore, India, January 2007, pp. 1-6.	Mobile Networks
Gopal, S.	Raychaudhuri, D.	Conference Paper	Experimental Evaluation of the TCP Simultaneous Send Problem over 802.11 Wireless Local Area Networks	Proceedings of the ACM SIGCOMM Workshop on Experimental Approaches to Wireless Network Design and Analysis, Philadelphia, PA, August 2005, pp. 23-28.	Mobile Networks

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Han, L.	Raychaudhuri, D., Liu, H. and Ramaswamy, K.	Conference Paper	Cross Layer Optimization for Scalable Video Multicast over 802.11 WLANs	Proceedings of the 3 rd IEEE Consumer Communications and Networking Conference (CCNC 2006), Las Vegas, NV, January 2006, pp. 838-843.	Mobile Networks
Ileri, O.	Mandayam, N.B.	Journal Paper	Dynamic Spectrum Access Models: Towards an Engineering Perspective in the Spectrum Debate	IEEE Communications Magazine, Vol. 46, No. 1, pp. 153-160, January 2008.	Mobile Networks
Ileri, O.	Samardzija, D. and Mandayam, N.B.	Conference Paper	Dynamic Property Rights Spectrum Access: Flexible Ownership Based Spectrum Management	Proceedings of the IEEE Symposium on New Frontiers in Dynamic Spectrum Access Networks (DySPAN 2007), Dublin, Ireland, April 2007, pp. 254-265.	Mobile Networks
Ileri, O.	Samardzija, D. and Mandayam, N.B.	Journal Paper	Demand Responsive Pricing and Competitive Spectrum Allocation in a Cognitive Radio Network	Submitted to issue of Wiley Communications and Mobile Computing (WCMC) on Cognitive Radio, Software Defined Radio and Adaptive Wireless Systems, May 2006.	Mobile Networks
Ileri, O.	Samardzija, D., Sizer, T. and Mandayam, N.B.	Conference Paper	Demand Responsive Pricing and Competitive Spectrum Allocation via a Spectrum Policy Server	Proceedings of IEEE Symposium on New Frontiers in Dynamic Spectrum Access Networks (DySPAN 2005), Baltimore, MD, November 2005, pp. 194-202.	Mobile Networks
Ileri, O.	Mau, S.C. and Mandayam, N.B.	Journal Paper	Pricing for Enabling Forwarding in Self-Configuring Ad Hoc Networks	IEEE Journal on Selected Areas in Communication Vol. 23, No. 1, pp. 151-162, January 2005.	Mobile Networks
Ivkovic, G.	Spasojevic, P. and Seskar, I.	Conference Paper	A Power Sensor Network for Identification of Heterogeneous Wireless Networks	Proceedings of the 41 st Conference on Information Sciences and Systems (CISS 2007), Baltimore, MD, March 2007, pp. 765-770.	Mobile Networks
Kaul, S.	Gruteser, M., Onishi, R. and Vuyyuru, R.	Conference Paper	GeoMAC: Geo-Backoff based Co-operative MAC for V2V Networks	Proceedings of the 2008 IEEE International Conference on Vehicular Electronics and Safety (ICVES 2008), Columbus, OH, September 2008, pp. 334-339.	Mobile Networks
Kaul, S.	Ramachandran, K., Pravin, S., Oh, S., Gruteser, M., Seskar, I. and Nadeem, T.	Conference Paper	Effect of Antenna Placement and Diversity on Vehicular Network Communications	Proceedings of the Fourth Annual IEEE Communications Society Conference on Sensor Mesh and Ad Hoc Communications and Networks (SECON 2007), San Diego, CA, June 2007, pp. 112-121.	Mobile Networks
Kaul, S.	Gruteser, M. and Seskar, I.	Conference Paper	Creating Wireless Multi-hop Topologies on Space-Constrained Indoor Testbeds Through Noise Injection	Proceedings of the IEEE Second International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (TRIDENTCOM 2006), Barcelona, Spain, March 2006, pg. 10.	Mobile Networks
Kokalj-Filipovic, S.	Spasojevic, P., Soljanin, E. and Yates, R.D.	Conference Paper	ARQ with Doped Fountain Decoding	Proceedings of the 10 th International Symposium on Spread Spectrum Techniques and Applications (ISSSTA 2008), Bologna, Italy, August 2008, pp. 780-784.	Mobile Networks

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Kokalj-Filipovic, S.	Spasojevic, P., Yates, R.D. and Soljanin, E.	Conference Paper	Decentralized Fountain Codes for Minimum-Delay Data Collection	Proceedings of IEEE Conference on Information Sciences and Systems (CISS 2008), Princeton, NJ, March 2008, pp. 545-550.	Mobile Networks
Kokalj-Filipovic, S.	Spasojevic, P. and Yates, R.	Conference Paper	Bespoken Protocol for Data Dissemination in Wireless Sensor Networks	Proceedings of the Workshop on Spatial Stochastic Models in Wireless Networks (SpaSWIN 2007), Limassol, Cyprus, April 2007.	Mobile Networks
Kokalj-Filipovic, S.	Yates, R. and Spasojevic, P.	Conference Paper	Random Walk Models for Geographic Data Propagation in Wireless Sensor Networks	Proceedings of IEEE Conference on Information Sciences and Systems (CISS 2007), Baltimore, MD, March 2007, pp. 604-609.	Mobile Networks
Kremo, H.	Seskar, I. and Spasojevic, P.	Conference Paper	Concurrent Measurements of the Vehicular Channel Transfer Function and the 802.11 Received Signal Strength Index	To appear in the Proceedings of the IEEE Consumer Communications and Networking Conference (CCNC 2009), Las Vegas, NV, January 2009.	Mobile Networks
Kremo, H.	Lei, J., Seskar, I. Grienstein, L. and Spasojevic, P.	Conference Paper	Characterization of the ORBIT Indoor Testbed Radio Environment	Proceedings of the 66 th Vehicular Technology Conference (VTC-Fall 2007), Baltimore, MD, October 2007, pp. 946-950.	Mobile Networks
Kremo, H.	Seskar, I. and Spasojevic, P.	Conference Paper	An ORBIT Testbed Study of 802.11b DCF: Throughput, Latency and the Capture Effect	Proceedings of the 2 nd IEEE Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (TRIDENTCOM 2006), Barcelona, Spain, March 2006.	Mobile Networks
Kuroda, M.	Nomura, R. and Trappe, W.	Conference Paper	A Radio-independent Authentication Protocol (EAP-CRP) for Networks of Cognitive Radios	Proceedings of the 4 th Annual IEEE Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2007), San Diego, CA, June 2007, pp. 70-79.	Mobile Networks
Lee, D.	Chandrasekaran, G., Sridharan, M. and Sinha, P.	Journal Paper	Association Management for Data Dissemination over Wireless Mesh Networks	Computer Networks: The International Journal of Computer and Telecommunications Networking, Volume 51, No. 15, pp. 4338-4355, October 2007.	Mobile Networks
Lee, W.	Lee, H. and Raychaudhuri, D.	Conference Paper	A Multi-Hop MAC Forwarding Protocol for High-Speed Mobile Nodes	Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2007), Hong Kong, March 2007, pp. 3961-3966.	Mobile Networks
Li, Q.	Trappe, W.	Journal Paper	Detecting Spoofing and Anomalous Traffic in Wireless Networks via Forge-Resistant Relationships	IEEE Transactions on Information Forensics and Security, Vol. 2, No. 4, pp. 793-808, December 2007.	Mobile Networks
Li, Q.	Trappe, W.	Conference Paper	Light Weight Detection of Spoofing Attacks in Wireless Networks	Proceedings of the 3 rd International Conference on Mobile Ad-Hoc and Sensor Systems, Vancouver, CA, October 2006, pp. 845-851.	Mobile Networks
Li, Q.	Trappe, W.	Conference Paper	Relationship-based Detection of Spoofing-related Anomalous Traffic in Ad-Hoc Networks	Proceedings of the 3 rd Annual Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2006), Reston, VA, September 2006, pp. 50-59.	Mobile Networks

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Li, Q.	Trappe, W.	Conference Paper	Staggered TESLA: A Multicast Authentication Scheme Resistant to DoS Attacks	Proceedings of the 48 th Annual IEEE Global Telecommunications Conference (GLOBECOM 2005) St. Louis, MO, November 2005, pp. 1670-1675.	Mobile Networks
Liu, H.	Wu, M., Li, D., Mathur, S., Ramaswamy, K., Han, L. and Raychaudhuri, D.	Conference Paper	A Staggered FEC System for Seamless Handoff in Wireless LANs: Implementation Experience and Experimental Study	Proceedings of the Ninth IEEE International Symposium on Multimedia 2007 (ISM 07), Taichung, Taiwan, ROC, December, 2007, pp. 283-290.	Mobile Networks
Liu, H.	Raychaudhuri, D.	Conference Paper	Label Switched Multi-path Forwarding in Wireless Ad Hoc Networks	Proceedings of IEEE Per Com 2005 Workshop on Pervasive Wireless Networking, Kauai Island, Hawaii, March 2005.	Mobile Networks
Liu, H.	Razoumov, L. and Mandayam, N.	Conference Paper	Optimal Power Allocation for Type II Hybrid – ARQ via Geometric Programming	Proceedings of the 37 th Annual Conference on Information Sciences and Systems, The John Hopkins University, March 2005.	Mobile Networks
Liu, R.	Maric, I., Spasojevic, P and Yates, R.D.	Journal Paper	Discrete Memoryless Interference and Broadcast Channels with Confidential Messages: Secrecy Capacity Regions	IEEE Transactions on Information Theory, Vol. 54, No. 6, pp. 2493-2507, June 2008.	Mobile Networks
Liu, R.	Maric, I., Spasojevic, P. and Yates, R.D.	Conference Paper	Multi-Terminal Communications with Confidential Messages	Proceedings of the Information Theory and Applications Workshop, UCSD, San Diego, CA, January 2007, pp. 370-377.	Mobile Networks
Luo, L.	Raychaudhuri, D., Liu, H., Wu, M. and Li, D.	Conference Paper	Joint Association, Routing and Bandwidth Allocation for Wireless Mesh Networks	Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM 2008), New Orleans, LA, December 2008.	Mobile Networks
Luo, L..	Raychaudhuri, D., Liu, H., Wu, M. and Li, D.	Journal Paper	End-to-End Performance Aware Association Mechanism for Wireless Municipal Mesh Networks	Elsevier Computer Communications Journal, Vol. 31, Issue 8, pp. 1602-1614, May 2008.	Mobile Networks
Luo, L.	Gruteser, M. and Liu, H.	Conference Paper	Achieving Temporal Fairness in Multi-Rate 802.11 WLANs with Capture Effect	Proceedings of the IEEE International Conference on Communications (ICC 2008), Beijing, China, May 2008, pp. 2496-2501.	Mobile Networks
Luo, L.	Gruteser, M. Liu, H. Raychaudhuri, D., Huang, K and Chen, S.	Conference Paper	A QoS Routing and Admission Control Scheme for 802.11 Ad Hoc Networks	Proceedings of the 2006 Workshop on Dependability Issues in Wireless Ad Hoc Networks and Sensor Networks (DIWANS 2006) held in conjunction with MobiCom, Los Angeles, CA, September 2006.	Mobile Networks
Ma, K.	Zhang, Y. and Trappe, W.	Journal Paper	Managing the Mobility of a Mobile Sensor Network Using Network Dynamics	IEEE Transactions on Parallel and Distributed Systems, Vol. 19, No. 1, pp. 106-120, January 2008.	Mobile Networks
Ma, K.	Zhang, Y. and Trappe, W.	Conference Paper	Mobile Network Management and Robust Spatial Retreats via Network Dynamics	Proceedings of the First International Workshop on Resource Provisioning and Management in Sensor Networks (RPMSN '05), Washington, DC, November 2005, pp. 235-242.	Mobile Networks
Mahindra, R.	Bhanage, G., Hadjicristofi, G., Seskar, I., Raychaudhuri, D. and Zhang, Y.	Conference Paper	Space Versus Time Separation for Wireless Virtualization on an Indoor Grid	Proceedings of the 4 th Euro-NGI Conference on Next Generation Internet Networks, (NGI 2008), Krakow, Poland, April 2008, pp. 215-222.	Mobile Networks

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Mahindra, R.	Bhanage, G., Hadjicristofi, G., Ganu, S., Kamat, P., Seskar, I. and Raychaudhuri, D.	Conference Paper	Integration of Heterogeneous Networking Testbeds	Proceedings of the 4 th International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (ACM Tridentcom 2008), Innsbruck, Austria, March 2008.	Mobile Networks
Miller, R.	Xu, W., Kamat, P. and Trappe, W.	Conference Paper	Service Discovery and Device Identification in Cognitive Radio Networks	Proceedings of the 2 nd IEEE Workshop on Networking Technologies for Software Defined Radios (SDR) Networks – Held in conjunction with IEEE SECON, San Diego, CA, June 2007, pp. 40-47.	Mobile Networks
Miller, R.	Xu, W., Kamat, P. and Trappe, W.	Conference Paper	Service Discovery and Device Identification in Cognitive Radio Networks	Proceedings of the 4 th Annual IEEE Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2007), San Diego, CA, June 2007, pp. 670-677.	Mobile Networks
Naik, R.	Biswas, S. and Datta, S.	Conference Paper	Distributed Sleep-Scheduling Protocols for Energy Conservation in Wireless Networks	Proceedings of the Hawaii International Conference on System Sciences, Big Island, Hawaii, January 2005, pp. 285b.	Mobile Networks
Nama, H.	Chiang, M. and Mandayam, N.	Conference Paper	Utility-Lifetime Trade-off in Self-Regulating Wireless Sensor Networks: A Cross-Layer Design Approach	Proceedings of the IEEE International Conference on Communications (ICC 2006) Istanbul, Turkey, June 2006, pp. 3511-3516.	Mobile Networks
Nama, H.	Chiang, M. and Mandayam, N.	Conference Paper	Optimal Utility-Lifetime Trade-off in Self-Regulating Wireless Sensor Networks: A Distributed Approach	Proceedings of the Conference on Information Sciences and Systems (CISS '06), Princeton, NJ, March 2006, pp. 789-794.	Mobile Networks
Nama, H.	Mandayam, N.B.	Conference Paper	Sensor Networks Over Information Fields: Optimal Energy and Node Distribution	Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2005), New Orleans, LA, March 2005, pp. 1842-1847.	Mobile Networks
Ng, C.T.K.	Maric, I., Goldsmith, A.J., Shamaï, S. and Yates, R.D.	Conference Paper	Iterative and One-shot Conferencing in Relay Channels	Proceedings of the IEEE Information Theory Workshop (ITW '06) Punta del Este, Uruguay, March 2006, pp. 193-197.	Mobile Networks
Ott, M.	Seskar, I., Siracusa, R. and Singh, M.	Conference Paper	ORBIT Testbed Software Architecture: Supporting Experiments as a Service	Proceedings of the IEEE First International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (TRIDENTCOM 2005), Trento, Italy, February 2005, pp. 136-145.	Mobile Networks
Paul, S.	Yates, R., Raychaudhuri, D. and Kurose, J.	Conference Paper	The Cache-and-Forward Network Architecture for Efficient Mobile Content Delivery Services in the Future Internet	Proceedings of the ITU NGN Conference on Future Network and Services, Geneva, Switzerland, May 2008.	Mobile Networks
Raju, L.	Ganu, S., Anepu, B., Seskar, I. And Raychaudhuri, D.	Conference Paper	Beacon Assisted Discovery Protocol (BEAD) for Self-Organizing Hierarchical Wireless Ad-Hoc Networks	IEEE Proceedings of the Global Telecommunications Conference (GLOBECOM '04), Dallas, TX, December 2004, pp. 1676-1680.	Mobile Networks

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Ramachandran, K.	Kokku, R., Zhang, H. and Gruteser, M.	Conference Paper	Symphony: Synchronous Two-Phase Rate and Power Control in 802.11 WLANs	To appear in the proceedings of the 6 th International Conference on Mobile Systems, Applications and Services (MobiSys 2008), Breckenridge, CO, June 2008, pp. 132-145.	Mobile Networks
Ramachandran, K.	Gruteser, M., Onishi, R. and Hikita, T.	Conference Paper	Experimental Analysis of Broadcast Reliability in Dense Vehicular Networks	IEEE Vehicular Technology Magazine, Vol. 2, No. 4, pp. 26-32, December 2007. Proceedings of the IEEE Vehicular Technology Conference – Fall 2007, Baltimore, MD, October, 2007, pp. 2091-2095. Proceedings of the IEEE International Symposium on Wireless Vehicular Communications (WiVeC 2007), Baltimore, MD, September 2007	Mobile Networks
Ramachandran, K.	Kremo, H., Gruteser, M., Spasojevic, P. and Seskar, I.	Conference Paper	Scalability Analysis of Rate Adaptation Techniques in Congested IEEE 802.11 Networks: An ORBIT Testbed Comparative Study	Proceedings of the IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2007) Helsinki, Finland, June 2007, pp. 1-12.	Mobile Networks
Ramachandran, K.	Rangarajan, S. and Lin, J.	Conference Paper	Make-Before-Break MAC Layer Handoff in 802.11 Wireless Networks	Proceedings of the IEEE International Conference on Communications, (ICC 2006) Istanbul, Turkey, June 2006, pp. 4818-4823.	Mobile Networks
Ramachandran, K.	Kaul, S., Mathur, S., Gruteser, M. And Seskar, I.	Conference Paper	Towards Mobility Emulation Through Spatial Switching on a Wireless Grid	Proceedings of ACM E-WIND Workshop (held with SIGCOMM 2005), Philadelphia, PA, August 2005 pp. 46-51.	Mobile Networks
Ramachandran, K.	Kaul, S., Mathur, S. And Gruteser, M.	Demo	Mobility Emulation Through Spatial Switching on a Wireless Grid	ACM.USENIX International Conference on Mobile Systems, Applications and Services, MOBISYS 2005, Seattle WA, June 2005.	Mobile Networks
Rastogi, D.	Ganu, S., Zhang, Y., Trappe, W. And Graff, C.	Conference Paper	A Comparative Study of OLSR and AODV on the ORBIT Testbed	Proceedings of the 2007 Military Communications Conference (MILCOM 2007), Orlando, FL, October 2007, pp. 1-7.	Mobile Networks
Ravi, N.	Gruteser, M. And Iftode, L.	Conference Paper	Non-Inference: An Information Flow Control Model for Location Based Services	Proceedings of the 3 rd International Conference on Mobile and Ubiquitous Systems – Workshops 2006, San Jose, CA, July 2006, pp. 1-10.	Mobile Networks
Raychaudhuri, D.		Keynote Speech	Emerging Wireless Technologies and the Future Internet	Proceedings of the IEEE Sarnoff Symposium, Princeton, NJ, April 2008.	Mobile Networks
Raychaudhuri, D.	Jing, X., Seskar, I., Le, K. And Evans, J.B.	Journal Paper	Cognitive Radio Technology: From Distributed Spectrum Coordination to Adaptive Network Collaboration	Journal of Pervasive and Mobile Computing (PMC) Vol. 4, No. 3, June 2008, pp. 278-302.	Mobile Networks
Raychaudhuri, D.		Invited Talk	Emerging Wireless Technologies and the Future Internet	APAN Symposium, Hawaii, January 23, 2008.	Mobile Networks

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Raychaudhuri, D.		Invited Talk	Emerging Wireless Technologies and the Future Internet	Intel-UC Davis Future Internet Workshop, Santa Clara, CA, June 19-20-2007.	Mobile Networks
Raychaudhuri, D.		Keynote Speech	Future Directions in Wireless Technology and the Path to Pervasive Computing	Proceedings of the 2 nd International Conference on Communication System Software and Middleware (COMSWARE 2007), Bangalore, India, January 2007.	Mobile Networks
Raychaudhuri, D.		Invited Talk	Cognitive Radio as a Building Block for Adaptive Wireless Networks	Intel Seminar Series, Portland, OR, May 2006.	Mobile Networks
Raychaudhuri, D.		Keynote Speech	The Future of Wireless Technology and the Path to Pervasive Systems	Fourth Annual IEEE International Conference on Pervasive Computing and Communications, Pisa, Italy, March 2006.	Mobile Networks
Raychaudhuri, D.		Invited Seminar Lecture	Future Trends in Wireless Technology	Intel Corporation – Bangalore, July 13, 2005.	Mobile Networks
Raychaudhuri, D.		Invited Seminar Lecture	Future Trends in Wireless Technology	IEEE Seminar – Calcutta, India, July 1, 2005.	Mobile Networks
Raychaudhuri, D.		Invited Talk	Cognitive Radio as a Building Block for Adaptive Wireless Networks of the Future	4G Forum, Kings College, UK, June 2, 2005.	Mobile Networks
Raychaudhuri, D.		Invited Talk	The Future of Wireless Networking: Architectural Trends and Key Technologies	Bell Labs, Murray Hill, NJ May 10, 2005.	Mobile Networks
Raychaudhuri, D.		Invited Talk	Adaptive Wireless Networks Using Cognitive Radio as a Building Block	Distinguished Lecture Series , UC Davis, Computer Science Dept., March 31, 2005.	Mobile Networks
Raychaudhuri, D.	Seskar, I., Ott, M., Ganu, S., Ramachandran, K., Kremo, H., Siracusa, R., Liu, H. and Singh, M.	Conference Paper	Overview of the ORBIT Radio Grid Testbed for Evaluation of Next-Generation Wireless Network Protocols	Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC'05), New Orleans, LA, March 2005, pp. 1664-1669.	Mobile Networks
Raychaudhuri, D.	Ott, M. and Seskar, I.	Conference Paper	ORBIT Radio Grid Tested for Evaluation of Next-Generation Wireless Network Protocols	Proceedings of the IEEE First International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (TRIDENTCOM 2005), Trento, Italy, February 2005, pp. 308-309.	Mobile Networks
Raychaudhuri, D.		Invited Talk	Future Directions in Wireless Technology: Infostations, Sensors, Ad-Hoc Nets and the Path to Pervasive Computing	Distinguished Lecture Series, SUNY Stony Brook, NY, February 25, 2005.	Mobile Networks
Wu, Z.	Raychaudhuri, D.	Conference Paper	Integrated Routing and MAC Scheduling for Single-Channel Wireless Mesh Networks	To appear in the Proceedings of IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2008), Newport Beach, CA, June 2008, pp. 1-8.	Mobile Networks
Wu, Z.	Ganu, S. and Raychaudhuri, D.	Conference Paper	IRMA: Integrated Routing and MAC Scheduling in Multihop Wireless Mesh Networks	Proceedings of the Second Workshop on Wireless Mesh Networks (WiMesh 2006), Reston, VA, September 2006.	Mobile Networks

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Wu, Z.	Ganu, S., Seskar, I. and Raychaudhuri, D.	Conference Paper	Experimental Investigation of PHY Layer Rate Control and Frequency Selection in 802.11-based Ad-Hoc Networks	Proceedings of ACM SIGCOMM Workshop, Philadelphia, PA, August 2005, pp. 41-45.	Mobile Networks
Xiao, L.	Greenstein, L.J., Mandayam, N. and Periyalwar, S.	Conference Paper	Sensor Networks for Estimating and Updating the Performance of Cellular Systems	Proceedings of the IEEE International Conference on Communications (ICC 2006), Istanbul, Turkey, June 2006, pp. 2107-2111.	Mobile Networks
Xu, W.	Trappe, W. and Zhang, Y.	Conference Paper	Channel Surfing: Defending Wireless Sensor Networks from Jamming and Interference	Proceedings of the 6 th International Conference on Information Processing in Sensor Networks (IPSN 07), Cambridge, MA, April 2007, pp. 499-508.	Mobile Networks
Xu, W.	Trappe, W., Zhang, Y.	Poster Presentation	Channel Surfing: Defending Wireless Sensor Networks from Jamming and Interference	Proceedings of the 4 th ACM Conference on Embedded Networked Sensor System (SenSys 2006), Boulder, CO, November 2006, pp. 403-404.	Mobile Networks
Xu, W.	Kamat, P. and Trappe, W.	Conference Paper	TRIESTE: A Trusted Radio Infrastructure for Enforcing Spectrum Etiquettes	Proceedings of the IEEE Workshop on Networking Techniques for Software Defined Radio (SDR) Networks (held in conjunction with IEEE SECON 2006) Reston, VA, September 2006, pp. 106-109.	Mobile Networks
Xu, W.	Ma, K., Trappe, W. and Zhang, Y.	Journal Paper	Jamming Sensor Networks: Attack and Defense Strategies	IEEE Networks Special Issue on Sensor Networks, Vol.20, No.3, pp. 41-47, May/June 2006.	Mobile Networks
Xu, W.	Trappe, W., Zhang, Y. and Wood, T.	Conference Paper	The Feasibility of Launching and Detecting Jamming Attacks in Wireless Networks	Proceedings of the 6 th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MOBIHOC 2005), Urbana, IL, May 2005, pp. 46-57.	Mobile Networks
Yu, S.	Zhang, Y.	Conference Paper	R-Sentry: Providing Continuous Sensor Services Against Random Node Failures	Proceedings of the 37 th Annual IEEE/IFIP International Conference on Dependable Systems and Networks (DSN 2007), Edinburgh, Scotland, June 2007, pp. 235-244.	Mobile Networks
Yu, S.	Yang, A. and Zhang, Y.	Conference Paper	DADA: A 2-Dimensional Adaptive Node Schedule to Provide Smooth Sensor Network Services against Random Failures	Proceedings of the Workshop on Information Fusion and Dissemination in Wireless Sensor Networks, Budapest, Hungary, July 2005.	Mobile Networks
Zhang, D.	Ileri, O. and Mandayam, N.	Conference Paper	Bandwidth Exchange as an Incentive for Relaying	Proceedings of the Conference on Information Sciences and Systems (CISS '08), Princeton, NJ, March 2008, pp. 749-754.	Mobile Networks
Zhang, Y.	Li, Z. and Trappe, W.	Journal Paper	Evaluation of Localization Attacks on Power-Modulated Challenge-Response Systems	IEEE Transactions on Information Forensics and Security, Vol. 3, No. 2, pp. 259-272, June 2008.	Mobile Networks
Zhang, Y.	Li, Z. and Trappe, W.	Conference Paper	Power-Modulated Challenge-response Schemes for Verifying Location Claims	Proceedings of the 50 th Annual IEEE Global Telecommunications Conference (GLOBECOM 2007), Washington, DC, November 2007, pp. 39-43.	Mobile Networks
Zhang, Y.	Bhanage, G., Trappe, W., Zhang, Y. and Howard, R.	Conference Paper	Facilitating an Active Transmit-only RFID System Through Receiver-based Processing	Proceedings of the 4 th Annual IEEE Communication Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2007), San Diego, CA, June 2007, pp. 421-430.	Mobile Networks

List of WINLAB Publications and Talks (...continued)

(2005 to Fall 2008)

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Zhao, S.	Raychaudhuri, D.	Conference Paper	Multi-tier Ad Hoc Mesh Networks with Radio Forwarding Nodes	Proceedings of the 50 th Annual IEEE Global Telecommunications Conference (GLOBECOM 2007), Washington, DC, November 2007, pp. 1360-1364.	Mobile Networks
Zhao, S.	Raychaudhuri, D.	Conference Paper	Policy-Based Adaptive Routing in Mobile Ad-Hoc Wireless Networks	Proceedings of IEEE Sarnoff 2006 Symposium, Princeton, NJ, March 2006, pp. 1-4.	Mobile Networks
Zhao, S.	Raychaudhuri, D.	Conference Paper	On the Scalability of Hierarchical Hybrid Wireless Networks	Proceedings of the Conference on Information Sciences and Systems (CISS '06), Princeton, NJ, March 2006, pp. 711-716.	Mobile Networks
Zhao, S.	Wu, Z., Acharya, A. and Raychaudhuri, D.	Conference Paper	PARMA: A PHY/MAC Aware Routing Metric for Ad-Hoc Wireless Networks with Multi-Rate Radios	Proceedings of the IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2005), Taormina, Italy, June 2005, pp. 286-292.	Mobile Networks