

## 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
Acharya, J.	Yates, R.D.	Journal Paper	Dynamic Spectrum Allocation for Uplink Users with Heterogeneous Utilities	To appear in the IEEE Transactions on Wireless Communications.	Radio Resource Management
Acharya, J.	Viswanathan, H. and Venkatesan, S.	Conference Paper	Timing Acquisition for Enabling Dynamic Spectrum Access	Proceedings of the IEEE Symposium on New Frontiers in Dynamic Spectrum Access Networks (DySPAN 2008), Chicago, IL, October 2008, pp. 1-10.	Radio Resource Management
Acharya, J.	Yates, R.D.	Conference Paper	Resource and Power Costs in Dynamic Spectrum Allocation	Proceedings of the IEEE Conference on Information Sciences and Systems (CISS 2008), Princeton, NJ, March 2008, pp. 938-943.	Radio Resource Management
Acharya, J.	Yates, R.D.	Conference Paper	A Price Based Dynamic Spectrum Allocation Scheme	Proceedings of the IEEE 2007 Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA, November 2007, pp. 797-801.	Radio Resource Management
Acharya, J.	Yates, R.D.	Conference Paper	A Framework for Dynamic Spectrum Sharing between Cognitive Radios	Proceedings of the IEEE International Conference on Communications (ICC 2007), Glasgow, Scotland, June 2007, pp. 5166-5171.	Radio Resource Management
Acharya, J.	Yates, R.D.	Conference Paper	Profit Maximizing Pricing Strategies for Dynamic Spectrum Allocation	Proceedings of the IEEE Conference on Information Sciences and Systems (CISS 2007), Baltimore, MD, March 2007, pp. 345-350.	Radio Resource Management
Acharya, J.	Yates, R.D.	Conference Paper	Two Dimensional Spreading for Dispersive Channels	Proceedings of 2005 Military Communications Conference (MILCOM '05), Atlantic City, NJ, October 2005, pp.1-7.	Radio/PHY
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 <sup>th</sup> Passive and Active Measurement (PAM) Conference, Cleveland, OH, April 2008, LNCS pp. 122-131.	Mobile Networks
Bohacek, S.	Blum, R., Cimini, L., Greenstein, L., and Haimovich	Conference Paper	The Impact of the Timeliness of Information on the Performance of Multihop Best-Select	Proceedings of 2005 Military Communications Conference (MILCOM 2005), Atlantic City, NJ, October 2005, pp. 99-105.	Radio Resource Management

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Brik, V.	Banerjee, S., Gruteser, M. and Oh, S.	Conference Paper	Wireless Device Identification with Radiometric Signatures	Proceedings of the 14 <sup>th</sup> International Conference on Mobile Computing and Networking (MOBICOM 2008), San Francisco, CA, September 2008, pp. 116-127.	Mobile Computing
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 <sup>th</sup> 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 <sup>rd</sup> International Symposium on Location and Context-Awareness (LoCA 2007), Oberpfaffenhofen, Germany, September 2007, pp. 1-16.	Mobile Networks
Chen, S.	Chen, Y. and Trappe, W.	Extended Abstract	Exploiting Environmental Properties for Wireless Localization	ACM Mobile Computing and Communication Review (MC2R), Vol. 12, No. 1, pp. 49-51, January 2008.	Mobile Computing
Chen, S.	Chen, Y. and Trappe, W.	Conference Paper	Exploiting Environmental Properties for Wireless Localization and Location Aware Applications	Proceedings of the IEEE International Conference on Pervasive Computing and Communications (PerCom 2008), Hong Kong, China, March 2008, pp. 90-99.	Mobile Computing
Chen, S.	Chen, Y. and Trappe, W.	Conference Paper	Exploiting Environmental Properties for Wireless Localization (Student Poster)	Proceedings of the 13 <sup>th</sup> Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom 2007), Montreal, Canada, September 2007.	Mobile Computing
Chen, H.	Zhong, J., Saraf, G., Lu, Y., Hill, D.H., Hsu, S.T., Ono, Y.	Journal Paper	Interface Properties of ZnO Nanotips Grown on Si Substrates	TMS & IEEE Journal on Electronic Materials, Vol. 35, No. 6, pp. 1241-1245, June 2006.	Radio/PHY
Chen, Y.	Trappe, W. and Martin, R.	Conference Paper	Detecting and Localizing Wireless Spoofing Attacks	Proceedings of the 4 <sup>th</sup> Annual IEEE Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2007), San Diego, CA, June 2007, pp. 193-202.	Mobile Computing
Chen, Y.	Trappe, W. and Martin, R.	Conference Paper	Attack Detection in Wireless Localization	Proceedings of the 26 <sup>th</sup> IEEE Conference on Computer Communications (INFOCOM 2007), Anchorage, AK, May 2007, pp. 1964-1972.	Mobile Computing
Chen, Y.	Trappe, W. and Martin, R.	Conference Paper	ADLS: Attack Detention for Wireless Localization Using Least Squares	Proceedings of the 5 <sup>th</sup> Annual IEEE International Conference on Pervasive Computing and Communications (PerCom 2007), White Plains, NY, March 2007, pp. 610-613.	Mobile Computing
Chen, Y.	Francisco, J-A., Trappe, W. and Martin, R.	Conference Paper	A Practical Approach to Landmark Deployment for Indoor Localization	Proceedings of the 3 <sup>rd</sup> Annual Conference on Sensor, Mesh and Ad Hoc Communications and Networks, (SECON 2006), Reston, VA, September 2006, pp. 365-373.	Mobile Computing
Chen, Y.	Kleisouris, K., Li, X., Trappe, W. and Martin, R.	Conference Paper	The Robustness of Localization Algorithms to Signal Strength Attacks: A Comparative Study	Proceedings of the International Conference on Distributed Computing in Sensor Systems (DCOSS 2006), San Francisco, CA, June 2006.	Mobile Computing

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Chen, Y.	Saraf, G., Wittstruck, R.H., Emanetoglu, N.W., and Lu, Y.	Conference Paper	ZnO and Mg <sub>x</sub> Zn <sub>1-x</sub> O Thin Film Resonators for Mass Sensing	Proceedings of the 2005 Joint IEEE International Frequency Control Symposium and Precise Time and Time Interval (PTTI) Systems and Applications Meeting, Vancouver, BC, Canada, August 2005.	Radio/PHY
Chen, Y.	Emanetoglu, N.W., Saraf, G., Wu, P., and Lu, Y.	Journal Paper	Analysis of SAW Properties in ZnO/A <sub>1-x</sub> Ga <sub>1-x</sub> N/c-A <sub>1</sub> O <sub>3</sub> Structures	IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control, Vol. 52, No. 7, pp. 1161-1169, July 2005.	Radio/PHY
Clark, M.V.	Greenstein, L.J.	Journal Paper	The Relationship between Fading and Bandwidth for Multipath Channels	IEEE Transactions on Wireless Communications, Vol. 4, No. 4, pp. 1372-1376, July 2005.	Radio/PHY
Clemens, N.	Rose, C.	Conference Paper	Intelligent Power Allocation Strategies in an Unlicensed Spectrum	Proceedings of IEEE Symposium on New Frontiers in Dynamic Spectrum Access Networks (DySPAN '05), Baltimore, MD, November 2005, pp. 37-42.	Radio Resource Management
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 <sup>th</sup> IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (WoWMoM 2005), Taormina/Giardini Naxos, June 2005, pp. 293-298.	Mobile Networks
Domazetovic, A.	Greenstein, L.J., Mandayam, N.B., and Seskar, I.	Journal Paper	Propagation Models for Short-Range Wireless Channels with Predictable Path Geometries	IEEE Transactions on Communications, Vol. 53, No. 7, pp.1123-1126, July 2005.	Radio/PHY
DuPasquier, A.	Chen, H. and Lu, Y.	Journal Paper	Dye Sensitized Solar Cells Using Well-Aligned ZnO Nanotip Arrays	Applied Physical Letters, No. 89, 253513, 2006.	Radio/PHY
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
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

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Ergin, M.	Ramachandran, K. and Gruteser, M.	Extended Abstract	Understanding the Effect of Access Point Density on Wireless LAN Performance	Proceedings of the 13 <sup>th</sup> 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
Feng, N.	Mau, S-C. and Mandayam, N.B.	Journal Paper	Joint Network-Centric and User-Centric Radio Resource Management in a Multicell System	IEEE Transactions on Communications, Vol. 53, Issue 7, pp. 1114-1118, July 2005.	Radio Resource Management
Firner, B.	Medhekar, S., Zhang, Y., Howard, R., Trappe, W., Wolniansky, P. and Fenson, E.	Conference Paper	PIP Tags: Hardware Design and Power Optimization	Proceedings of the Fifth Workshop on Embedded Networked Sensors (HotEmNets 2008), Charlottesville, VA, June 2008.	Radio/PHY
Foschini, G.J.	Karakayali, K. and Valenzuela, R.A.	Invited Article	Coordinating Multiple Antenna Cellular Networks to Achieve Enormous Spectral Efficiency	IEE Proceedings – Communications, Vol. 153, No.4, pp. 548-555, August 2006.	Radio/PHY
Foschini, G.J.	Huang, H.C., Karakayali, K., Valenzuela, R.A. and Venkatesan, S.	Conference Paper	The Value of Coherent Base Station Coordination	Proceedings of the Conference on Information Sciences and Systems (CISS '05), The John Hopkins University, March 2005.	Radio/PHY
Galoppini, E.	Rochford, J., Chen, H., Saraf, G., Lu, Y., Hagfeldt, A. and Boschloo, G.	Journal Paper	Fast Electron Transport in MOCVD Grown Dye-Sensitized ZnO Nanorod Solar Cells	Physical Chemical Letters B 110 (33) p16159, 2006.	Radio/PHY
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 <sup>nd</sup> 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
Ghassemzadeh, S.S.	Greenstein, L.J., Sveinsson, T., Kavcic, V. and Tarokh, V.	Journal Paper	UWB Delay Profile Models for Residential and Commercial Environments	IEEE Transactions on Vehicular Technology, Vol. 54, No. 4, pp. 1235-1244, July 2005.	Radio/PHY

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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 <sup>nd</sup> 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
Gopal, S.	Paul, S. and Raychaudhuri, D.	Conference Paper	Investigation of the TCP Simultaneous-Send Problem in 802.11 Wireless Local Area Networks	Proceedings of the IEEE International Conference on Communications, Seoul, Korea, May 2005, pp. 3594-3598.	Radio Resource Management
Greenstein, L.J.	Ghassemzadeh, S.S., Hong, S.C. and Tarokh, V.	Journal Paper	Comparison Study of UWB Indoor Channel Models	IEEE Transactions on Wireless Communications. Vol. 6, No. 1, pp.128-135, January 2007.	Radio/PHY
Greenstein, L.J.	Ghassemzadeh, S.S.	Conference Paper	Comparing Three Models for UWB Indoor Power Delay Profile	Proceedings of the Conference on Information Sciences and Systems (CISS '06), Princeton, NJ, March 2006, pp. 626-631.	Radio/PHY
Gruteser, M.	Hoh, B.	Book Chapter	Privacy Preservation of GPS Traces	Encyclopedia of GIS. Shashi Shekhar, Hui Xiong (Eds.) Springer.	Mobile Computing
Gruteser, M.	Grunwald, D.	Journal Paper	Enhancing Location Privacy in Wireless LAN through Disposable Interface Identifiers	ACM Mobile Networks and Applications (MONET), Vol. 10, No. 3, pp. 315-325, June 2005.	Mobile Computing
Haber, S.	Kamat, P.	Conference Paper	A Content Integrity Service for Long-Term Digital Archives	Proceedings of the IS&T Archiving Conference (Archiving 2006), Ottawa, Canada, May 2006.	Mobile Computing
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 <sup>rd</sup> IEEE Consumer Communications and Networking Conference (CCNC 2006), Las Vegas, NV, January 2006, pp. 838-843.	Mobile Networks
Hoh, B.	Gruteser, M., Herring, R., Ban, J., Work, D., Herrera, J-C., Bayen, A.M., Annavaram, M. and Jacobson, Q.	Conference Paper	Virtual Trip Lines for Distributed Privacy-Preserving Traffic Monitoring	To appear in the proceedings of the 6 <sup>th</sup> International Conference on Mobile Systems, Applications and Services (MobiSys 2008), Breckenridge, CO, June 2008, pp. 15-28.	Mobile Computing
Hoh, B.	Gruteser, M., Xiong, H. and Alrabady, A.	Conference Paper	Preserving Privacy in GPS Traces via Uncertainty-Aware Path Cloaking	Proceedings of the ACM Conference on Computer Communications Security (CCS), Alexandria, VA, October 2007, pp. 161-171.	Mobile Computing
Hoh, B.	Gruteser, M., Xiong, H. and Alrabady, A.	Journal Paper	Enhancing Security and Privacy in Traffic Monitoring Systems	IEEE Pervasive Computing Magazine, Vol. 5, No. 4, pp. 38-46, October-December 2006.	Mobile Computing

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Hoh, B.	Gruteser, M., Xiong, H. and Alrabady, A.	Poster Paper	Enhancing Privacy Preservation of Anonymous Location Sampling Techniques: A Traffic Monitoring Case Study	Proceedings of the 2 <sup>nd</sup> International Conference on Security and Privacy for Emerging Areas in Communication Networks (SecureComm 2006), Baltimore, MD, August 2006, pp. 1-3.	Mobile Computing
Hoh, B.	Gruteser, M.	Conference Paper	Computer Ecology: Responding to Mobile Worms with Location-Based Quarantine Boundaries	Proceedings of the International Workshop on Research Challenges in Security and Privacy for Mobile and Wireless Networks (WSPWN 2006), Miami, FL, March 2006.	Mobile Computing
Hoh, B.	Gruteser, M.	Conference Paper	Protecting Location Privacy Through Path Confusion	Proceedings of IEEE/CreateNet International Conference on Security and Privacy for Emerging Areas in Communication Networks (SecureComm 2005), Athens, Greece, August/September 2005, pp. 194-205.	Mobile Computing
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	Localization of Packet Based Radio Transmitters in Space, Time and Frequency	Proceedings of the 42 <sup>nd</sup> Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA, October 2008.	Radio/PHY
Ivkovic, G.	Spasojevic, P. and Seskar, I.	Conference Paper	Radio Scene Analysis using Trilinear Decomposition	Proceedings of the 42 <sup>st</sup> Conference on Information Sciences and Systems (CISS 2008), Princeton, NJ, March 2008, pp. 128-133.	Radio/PHY
Ivkovic, G.	Spasojevic, P. and Seskar, I.	Conference Paper	A Power Sensor Network for Identification of Heterogeneous Wireless Networks	Proceedings of the 41 <sup>st</sup> Conference on Information Sciences and Systems (CISS 2007), Baltimore, MD, March 2007, pp. 765-770.	Mobile Networks
Jiang, N.	Schmidt, C. and Parashar, M.	Conference Paper	A Decentralized Content-Based Aggregation Service for Pervasive Environments	Proceedings of the IEEE International Conference on Pervasive Services (ICPS 2006), Lyon, France, June 2006, pp. 203-212.	Mobile Computing

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Jiang, N.	Schmidt, C., Matossian, V. and Parashar, M.	Conference Paper	Enabling Applications in Sensor-Based Pervasive Environments	Proceedings of the Workshop on Broadband Advanced Sensor Networks (BaseNets 2005), San Jose, CA October 2005.	Mobile Computing
Jing, X.	Anandaraman, S., Ergin, M., Sesar, I. and Raychaudhuri, D.	Conference Paper	Distributed Coordination Schemes for Multi-Radio Co-Existence in Dense Spectrum Environments: An Experimental Study on the ORBIT Testbed.	Proceedings of the 3 <sup>rd</sup> IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN 2008), Chicago, IL, October 2008, pp. 156-166.	Radio Resource Management
Jing, X.	Raychaudhuri, D.	Conference Paper	Global Control Plane Architecture for Cognitive Radio Networks	Proceedings of IEEE CogNet 2007 Workshop – Towards Cognition in Wireless Networks (in conjunction with IEEE International Conference on Communications – ICC 2007), Glasgow, Scotland, June 2007, pp. 6466-6470.	Radio Resource Management
Jing, X.	Raychaudhuri, D.	Journal Paper	Spectrum Co-Existence of IEEE 802.11b and 802.16a Networks Using Reactive and Proactive Etiquette Policies	ACM Monet Special Issue on Soft Radio-enabled Heterogeneous Wireless Networks, Vol. 11, No. 4, pp. 539-554, August 2006.	Radio Resource Management
Jing, X.	Raychaudhuri, D.	Conference Paper	Spectrum Co-existence of IEEE 802.11b and 802.16a Networks Using the CSCC Etiquette Protocol	Proceedings of IEEE International Symposium on New Frontiers in Dynamic Spectrum Access Networks (DySPAN 2005) Baltimore, MD, November 2005, pp. 243-250.	Radio Resource Management
Jing, X.	Mau, S-C., Raychaudhuri, D. and Matyas, R.	Conference Paper	Reactive Cognitive Radio Algorithms for Co-existence between IEEE 802.11b and 802.16a Networks	Proceedings of the 48 <sup>th</sup> Annual IEEE Global Telecommunications Conference (GLOBECOM 2005) St. Louis, MO, November 2005, pp. 2465-2469.	Radio Resource Management
Kamat, P.	Xu, W., Zhang, Y. and Trappe, W.	Conference Paper	Temporal Privacy in Wireless Sensor Networks	Proceedings of the 27 <sup>th</sup> International Conference on Distributed Computing Systems (ICDCS 2007), Toronto, Ontario, June 2007, pg. 23.	Mobile Computing
Kamat, P.	Zhang, Y., Trappe, W. and Ozturk, C.	Conference Paper	Enhancing Source-Location Privacy in Sensor Network Routing	Proceedings of the 25th International Conference on Distributed Computing Systems (ICDCS 2005), Columbus, OH, June 2005, pp. 599-608.	Mobile Computing
Kang, J.	Zhang, Y. and Nath, B.	Journal Paper	TARA: Topology-Aware Resource Adaptation to Alleviate Congestion in Sensor Networks	IEEE Transactions on Parallel and Distributed Systems, Vol. 18, No. 7, pp. 919-931, July 2007.	Radio Resource Management
Kang, J.	Zhang, Y. and Nath, B.	Conference Paper	Analysis of Resource Increase and Decrease Algorithm in Wireless Sensor Networks	Proceedings of IEEE Symposium on Computers and Communications (ISCC), Sardinia, Italy, June 2006, pp. 585-590.	Radio Resource Management
Kang, J.	Zhang, Y. and Nath, B.	Conference Paper	Accurate and Energy-Efficient Congestion Level Measurement in Ad Hoc Networks	Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2005), New Orleans, LA, March 2005, pp. 2258-2263.	Radio Resource Management
Karakayali, K.	Yates, R.D., Foschini, G. and Valenzuela, R.	Conference Paper	Optimum Zero-forcing Beamforming with Per Antenna Power Constraints	Proceedings of the IEEE International Symposium on Information Theory, Nice, France, June 2007, pp. 101-105.	Radio Resource Management



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Karakayali, K.	Yates, R. D. and Razoumov, L.	Journal Paper	Downlink Throughput Maximization in CDMA Wireless Networks	IEEE Transactions on Wireless Communications, Vol. 5, No.12, pp. 3492-3500, December 2006.	Radio Resource Management
Karakayali, K.	Foschini, G.J., Valenzuela, R.A. and Yates, R.D.	Conference Paper	On the Maximum Common Rate Achievable in a Coordinated Network	Proceedings of IEEE International Conference on Communications, Istanbul, Turkey, June 2006, pp. 4333-4338.	Radio Resource Management
Karakayali, K.	Foschini, G.J. and Valenzuela, R.A.	Invited Article	Network Coordination for Spectrally Efficient Communications in Cellular Systems	IEEE Wireless Communications Magazine, Vol. 13, No. 4, pp. 56-61, August 2006.	Radio Resource Management
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
Kaya, A.O.	Greenstein, L. and Trappe, W.	Conference Paper	Characterizing Indoor Wireless Channels via Ray Tracing, and Validation Via Measurements	Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM 2008), New Orleans, LA, December 2008.	Radio/PHY
Kaya, A.O.	Greenstein, L. and Trappe, W.	Conference Paper	Modeling Temporal Channel Variations in Indoor Wireless Environments	Proceedings of the Military Communications Conference (MILCOM 2008), San Diego, CA, November 2008.	Radio/PHY
Kaya, A.O.	Greenstein, L., Chizhik, D. Valenzuela, R. and Moayeri, N.	Conference Paper	Emitter Localization and Visualization (ELVIS): A Backward Ray Tracing Algorithm for Locating Emitters	Proceedings of the Conference on Information Sciences and Systems (CISS 2007), Baltimore, MD, March 2007, pp. 376-381.	Radio/PHY
Kishore, S.	Greenstein, L.J., Poor, H.V. and Schwartz, S.C.	Journal Paper	Uplink User Capacity in a Multicell CDMA System with Hotspot Microcells	IEEE Transactions on Wireless Communications, Vol. 5, No. 6, pp. 1333-1342, June 2006.	Radio/PHY
Kishore, S.	Greenstein, L.J., Poor, H.V. and Schwartz, S.C.	Journal Paper	Uplink User Capacity in a CDMA System with Hotspot Microcells: Effects of Finite Transmit Power and Dispersion	IEEE Transactions on Wireless Communications, Vol. 5, No. 2, pp. 417-426, February 2006.	Radio/PHY
Kishore, S.	Schwartz, S., Greenstein, L.J. and Poor, H.V.	Journal Paper	Uplink Throughput in a Single-Macrocell/Single-Microcell System, with Application to Data Access Points	IEEE Transactions on Wireless Communications, Vol. 4, No. 4, pp. 1302-1306, July 2005.	Radio/PHY
Kishore, S.	Greenstein, L.J., Schwartz, S.C. and Poor, H.V.	Journal Paper	Soft Handoff and Uplink Capacity in a Two-Tier CDMA System	IEEE Transactions on Wireless Communications, Vol. 4, No. 4, pp. 1297-1301, July 2005.	Radio/PHY



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

(2005 to Fall 2008)

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Kleisouris, K.	Chen, Y., Yang, J. and Martin, R.	Conference Paper	The Impact of Using Multiple Antennas on Wireless Localization	Proceedings of the 5 <sup>th</sup> Annual IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2008), San Francisco, CA, June 2008, pp. 55-63.	Radio/PHY
Kleisouris, K.	Martin, R.	Conference Paper	Parallel Algorithms for Bayesian Indoor Positioning Systems	Proceedings of the International Conference on Parallel Processing (ICPP 2007), Xian, China, September 2007, pg. 15.	Mobile Computing
Kokalj-Filipovic, S.	Spasojevic, P., Soljanin, E. and Yates, R.D.	Conference Paper	ARQ with Doped Fountain Decoding	Proceedings of the 10 <sup>th</sup> International Symposium on Spread Spectrum Techniques and Applications (ISSSTA 2008), Bologna, Italy, August 2008, pp. 780-784.	Mobile Networks
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
Koskie, S.	Gajic, Z.	Journal Paper	A Nash Game Algorithm for SIR-based Power Control in 3G Wireless CDMA Networks	IEEE/ACM Transactions on Networking, Vol. 13, No. 5, pp. 1017-1026, October 2005.	Radio Resource Management
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. Grenstein, L. and Spasojevic, P.	Conference Paper	Characterization of the ORBIT Indoor Testbed Radio Environment	Proceedings of the 66 <sup>th</sup> 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 <sup>nd</sup> 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 <sup>th</sup> Annual IEEE Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2007), San Diego, CA, June 2007, pp. 70-79.	Mobile Networks
Lai, J.	Mandayam, N.B.	Journal Paper	Performance of Turbo-coded WCDMA with Downlink Space-time Block Coding in Correlated Fading Channels	IEEE Transactions on Wireless Communications, Vol.4, No. 2, pp. 802-807, March 2005.	Radio/PHY

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

(2005 to Fall 2008)

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
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
Lei, J.	Gao, W.	Conference Paper	A Code-Matched Interleaver Design for LDPC Codes over Surrogate Channel	To appear in the Proceedings of the IEEE Wireless Communication and Networking Conference (WCNC 2009), Budapest, Hungary, April 2009.	Radio/PHY
Lie, J.	Greenstein, L. and Yates, R.D.	Conference Paper	Link Gain Matrix Estimation in Distributed Wireless Networks Based on Maximum Entropy Sampling	Proceedings of the IEEE Global Telecommunication Conference (GLOBECOM 2008), New Orleans, LA, November 2008.	Radio/PHY
Lie, J.	Gao, W.	Conference Paper	Fast Identification of Error-Prone Patterns for LDPC Codes under Message Passing Decoding	Proceedings of the IEEE Global Telecommunication Conference (GLOBECOM 2008), New Orleans, LA, November 2008.	Radio/PHY
Lei, J.	Gao, W.	Conference Paper	Matching Graph Connectivity of LDPC Codes to High-Order Modulation by Bit Interleaving	Proceedings of the 46 <sup>th</sup> Allerton Conference on Communication, Control and Computing, Champaign, IL, September 2008.	Radio/PHY
Lei, J.	Gao, W.	Conference Paper	A Backward Compatible Solution for Next Generation Digital Video Broadcasting Systems	Proceedings of the IEEE International Conference on Communication (ICC '08), Beijing, China, May 2008, pp. 1962-1966.	Radio/PHY
Lei, J.	Yates, R.D. and Greenstein, L.J.	Journal Paper	A Generic Model for Optimizing Single-Hop Transmission Policy of Replenishable Wireless Sensors	To appear in the IEEE Transactions on Wireless Communications.	Radio/PHY
Lei, J.	Yates, R.D., Greenstein, L.J. and Liu, H.	Journal Paper	Mapping Link SNRs of Real-World Wireless Networks onto an Indoor Testbed	To appear in the IEEE Transactions on Wireless Communications.	Radio/PHY
Lei, J.	Yates, R. and Greenstein, L.J.	Conference Paper	Optimal Transmission Policy for Renewable Sensor Networks	Proceedings of the Conference on Information Sciences and Systems (CISS '06), Princeton, NJ, March 2006, pp. 81-86.	Radio/PHY
Lei, J.	Yates, R., Greenstein, L.J. and Liu, H.	Conference Paper **Best Paper Award	Mapping Link SNRs of Wireless Mesh Networks onto an Indoor Testbed	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, pp. 7.	Radio/PHY
Lei, J.	Yates, R., Greenstein, L. and Liu, H.	Conference Paper	Wireless Link SNR Mapping onto an Indoor 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. 130-135.	Radio/PHY

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

(2005 to Fall 2008)

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
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 <sup>rd</sup> 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 <sup>rd</sup> Annual Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2006), Reston, VA, September 2006, pp. 50-59.	Mobile Networks
Li, Q.	Trappe, W.	Journal Paper	Reducing Delay and Enhancing DoS Resistance in Multicast Authentication through Multi-grade Security	IEEE Transactions on Information Forensics and Security, Vol. 1, pp. 190-204, June 2006.	Mobile Computing
Li, Q.	Trappe, W.	Conference Paper	Staggered TESLA: A Multicast Authentication Scheme Resistant to DoS Attacks	Proceedings of the 48 <sup>th</sup> Annual IEEE Global Telecommunications Conference (GLOBECOM 2005) St. Louis, MO, November 2005, pp. 1670-1675.	Mobile Networks
Li, X.	Martin, R.P.	Conference Paper	A Simple Ray-Sector Signal Strength Model for Indoor 802.11 Networks	Proceedings of the 2 <sup>nd</sup> IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS 2005), Washington, DC, November 2005, pp. 639-648.	Radio Resource Management
Li, Z.	Yates, R.D. and Trappe, W.	Conference Paper	Secrecy Capacity Region of a Class of One-Sided Interference Channel	Proceedings of the IEEE International Symposium on Information Theory (ISIT), Toronto, Canada, July 2008, pp. 379-383..	Radio/PHY
Li, Z.	Yates, R.D. and Trappe, W.	Conference Paper	Secure Communication with a Fading Eavesdropper Channel	Proceedings of the IEEE International Symposium on Information Theory (ISIT 2007), Nice, France, June 2007, pp. 1296-1300.	Radio/PHY
Li, Z.	Trappe, W. and Yates, R.D.	Conference Paper	Secret Communication via Multi-antenna Transmission	Proceedings of the 41 <sup>st</sup> Annual Conference in Information Sciences and Systems (CISS 2007), Baltimore, MD, March 2007, pp. 905-910.	Radio/PHY
Li, Z.	Xu, W., Miller, R. and Trappe, W.	Conference Paper	Securing Wireless Systems via Lower Layer Enforcements	Proceedings of the 7 <sup>th</sup> International Conference on Web Information Systems Engineering, Wuhan, China, October 2006.	Mobile Computing
Li, Z.	Yates, R. and Trappe, W.	Conference Paper	Secrecy Capacity of Independent Parallel Channels	Proceedings of the 44 <sup>th</sup> Annual Allerton Conference, Champaign, IL, September 2006.	Radio/PHY
Li, Z.	Xu, W., Miller, R. and Trappe, W.	Conference Paper	Securing Wireless Systems via Lower Layer Enforcements	Proceedings of the ACM Workshop on Wireless Security (WiSe 2006), Los Angeles, September 2006, pp. 33-42.	Radio/PHY
Li, Z.	Trappe, W.	Conference Paper	Collusion-resistant Fingerprints from WBE Sequence Sets	Proceedings of the IEEE International Conference on Communications, Seoul, Korea, May 2005, pp. 1336-1340.	Mobile Computing

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(2005 to Fall 2008)

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Li, Z.	Trappe, W., Zhang, Y. and Nath, B.	Conference Paper	Robust Statistical Methods for Securing Wireless Localization in Sensor Network Services against Random Failures	Proceedings of the IEEE/ACM International Conference of Information Processing in Sensor Networks (IPSN), Los Angeles, CA, April 2005, pp. 91-98.	Mobile Computing
Liang, Y.	Zhang, Y., Xiong, H., Sahoo, R. and Sivasubramaniam	Conference Paper	Failure Prediction in IBM BlueGene/L Event Logs	Proceedings of the IEEE International Conference on Data Mining (ICDM 2007), Omaha, NE, October 2007, pp. 583-588.	Mobile Computing
Liang, Y.	Zhang, Y., Xiong, H. and Sahoo, R.	Conference Paper	An Adaptive Semantic Filter for BlueGene/L Failure Log Analysis	Proceedings of the 3 <sup>rd</sup> International Workshop on System Management Techniques, Processes and Services (SMTPS 2007), Long Beach, CA, March 2007.	Mobile Computing
Liang, Y.	Zhang, Y., Sivasubramaniam, A., Jette, M. and Sahoo, R.	Conference Paper	BlueGene/L Failure Analysis and Prediction Models	Proceedings of IEEE International Conference on Dependable Systems and Networks (DSN 2006), Philadelphia, PA, June 2006, pp. 425-434.	Mobile Computing
Liang, Y.	Zhang, Y., Sivasubramaniam, A., Sahoo, R., Moreira, J. and Gupta, M.	Conference Paper	Filtering Failure Logs for a BlueGene/L Prototype	Proceedings of IEEE International Conference on Dependable Systems and Networks (DSN 2005), Yokohama, Japan, June 2005, pp. 476-485.	Mobile Computing
Lim, G.	Cimini, L.J. and Greenstein, L.J.	Conference Paper	Analysis and Results for H-MIMO – A Hybrid of Spatial Multiplexing and Adaptive Beamforming	Proceedings of the 2005 Military Communications Conference (MILCOM 2005), Atlantic City, NJ, October 2005, pp.1187-1192.	Radio/PHY
Lin, L.	Yates, R.D. and Spasojevic, P.	Journal Paper	Adaptive Transmission with Finite Code Rates	IEEE Transactions on Information Theory, Vol. 52, No. 5, pp. 1847-1860, May 2006.	Radio/PHY
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 <sup>th</sup> Annual Conference on Information Sciences and Systems, The John Hopkins University, March 2005.	Mobile Networks
Liu, K.J.R.	Trappe, W., Wang, Z.J., Wu, M. and Zhao, H.	Book	Digital Fingerprinting for Multimedia Forensics	Hindawi Press, 2005.	Mobile Computing
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.	Luo, J. and Spasojevic, P.	Journal Paper	Adaptive Transmission with Variable-Rate Turbo Bit-Interleaved Coded Modulation	IEEE Transactions on Wireless Communications, Vol.6, No. 11, pp. 3926-3936, November 2007.	Radio/PHY

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Liu, R.	Spasojevic, P. and Soljanin, E.	Journal Paper	Incremental Redundancy Cooperative Coding for Wireless Networks: Cooperative Diversity, Coding, and Transmission Energy Gains	IEEE Transactions on Information Theory, Vol. 54, No. 3, pp. 1207-1224, March 2008.	Radio/PHY
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
Liu, R.	Liang, Y., Poor, H.V. and Spasojevic, P.	Conference Paper	Secure Nested Codes for Type II Wiretap Channels	Proceedings of IEEE Information Theory Workshop (ITW '07), Lake Tahoe, CA, September 2007, pp. 337-342.	Radio/PHY
Liu, R.	Spasojevic, P.	Conference Paper	On the Bhattacharya Rate for BISOM Channels and its Code Threshold	Proceedings of IEEE Information Theory Workshop (ITW '06), Chengdu, China, October 2006, pp. 224-228.	Radio/PHY
Liu, R.	Maric, I., Yates, R.D. and Spasojevic, P.	Conference Paper	The Discrete Memoryless Multiple Access Channel with Confidential Messages	Proceedings of IEEE International Symposium on Information Theory (ISIT 2006) Seattle, WA, July 2006, pp. 957-961.	Radio/PHY
Liu, R.	Spasojevic, P. and Soljanin, E.	Journal Paper	Reliable Channel Regions for Good Binary Codes Transmitted over Parallel Channels	IEEE Transactions on Information Theory, Vol. 52, No. 4, pp. 1405-1424, April 2006.	Radio/PHY
Liu, R.	Spasojevic, P. and Soljanin, E.	Journal Paper	On the Weight Spectrum of Good Linear Binary Codes	IEEE Transactions on Information Theory, Vol. 51, No. 12, pp. 4369-4373, December 2005.	Radio/PHY
Liu, R.	Spasojevic, P. and Soljanin, E.	Conference Paper	Cooperative Coding for Wireless Networks: Cluster Behavior via a Geometric Distance Profile	Proceedings of the WICAT Workshop on Cooperative Communications, New York, NY, October 21, 2005.	Radio/PHY
Liu, R.	Spasojevic, P.	Conference Paper	On the Rate-Diversity Function for MIMO Channels with a Finite Input Alphabet	Proceedings of the 43 <sup>rd</sup> Annual Allerton Conference of Communication, Control and Computing, Monticello, IL, September 2005.	Radio/PHY
Liu, R.	Spasojevic, P. and Soljanin, E.	Conference Paper	Cooperative Diversity with Incremental Redundancy Turbo Coding for Quasi-static Wireless Networks	Proceedings of the IEEE 6 <sup>th</sup> Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2005), New York, NY, June 2005, pp. 791-795.	Radio/PHY
Liu, S.	Greenstein, L.J.	Conference Paper	Emission Characteristics and Interference Constraint of Overhead Medium-Voltage Broadband Power Line (BPL) Systems	Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM 2008), New Orleans, LA, December 2008.	Radio/PHY
Liu, S.	Greenstein, L.J.	Conference Paper	Radiation Characteristics and Interference of Large Broadband Power Line (BPL) Deployments	Proceedings of the IEEE International Conference on Communications (ICC '08), Beijing, China, May 2008, pp. 2071-2075.	Radio/PHY
Liu, S.	Greenstein, L.J.	Conference Paper	Modeling and Interference Evaluation of Overhead Medium-voltage Broadband Power Line (BPL) Systems	Proceedings of the 50 <sup>th</sup> Annual IEEE Global Telecommunications Conference (GLOBECOM 2007), Washington, DC, November 2007, pp. 134-139.	Radio/PHY

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(2005 to Fall 2008)

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Loiacono, M.	Rosca, J. and Trappe, W.	Conference Paper	The Snowball Effect: Detailing Performance Anomalies of 802.11 Rate Adaptation	Proceedings of IEEE Global Telecommunications Conference (GLOBECOM 2007), Washington, DC, November 2007, pp. 5117-5122.	Radio/PHY
Lu, G.	Greenstein, L.J. and Spasojevic, P.	Journal Paper	Spectral and Spatial Properties of Antennas for Transmitting and Receiving UWB Signals	IEEE Transactions on Vehicular Technology, Vol. 57, No. 1, pp. 243-249, January 2008.	Radio/PHY
Lu, G.	Greenstein, L. J. and Spasojevic, P.	Journal Paper	A New Probability Density Function Enhancing Packet Detection Analysis for Low SNR Links	Transactions on Vehicular Technology, Vol. 56, No. 3, pp.1230-1238, May 2007.	Radio/PHY
Lu, G.	Greenstein, L.J. and Spasojevic, P.	Conference Paper	Symmetry Properties of Antennas in Transmitting and Receiving UWB Signals	Proceedings of IEEE International Workshop on Antenna Technology: Small Antennas and Novel Metamaterials, White Plains, NY, March 2006, pp. 76-79.	Radio/PHY
Lu, G.	Spasojevic, P. and Greenstein, L.J.	Conference Paper	Receive Response Design Compensating Direction-dependent Impulse Responses of UWB Antennas	Proceedings of IEEE International Workshop on Antenna Technology: Small Antennas and Novel Metamaterials, White Plains, NY, March 2006, pp. 384-387.	Radio/PHY
Lu, G.	Greenstein, L. and Spasojevic, P.	Conference Paper	A New Probability Density Function Enhancing Packet Detection Analysis for Low SNR Links	Proceedings of the 48 <sup>th</sup> Annual IEEE Global Telecommunications Conference (GLOBECOM 2005) St. Louis, MO, November 2005, pp. 1273-1278.	Radio/PHY
Lu, G.	Spasojevic, P. and Greenstein, L.	Conference Paper	A Technique for Reducing Frame Synchronization Errors in OFDM UWB Systems with Multipath	Proceedings of IEEE 62 <sup>nd</sup> Semi-Annual Vehicular Technology Conference – Fall 2005, Dallas, TX, September 2005, pp. 68-72.	Radio/PHY
Lu, Y.	Emanetoglu, N.W., and Chen, Y.	Book Chapter	Chapter 13: ZnO Piezoelectric Devices	In Zinc Oxide Bulk, Thin Films and Nanostructures: Processing, Properties and Applications, Elsevier Limited, USA, ISBN 0-0804-4722-8, 2006.	Radio/PHY
Lu, Y.	Zhu, J., Zhong, J., Chen, Y, Saraf, G., Chen, H., Zhang, Z. and Wu, P.	Conference Paper	ZnO-based Novel Devices for Aviation Applications	Proceedings of Aviation Technologies – Looking Toward Tomorrow Conference – F.A.A Technical Center, Pomona, NJ, July 2006.	Radio/PHY
Lu, Y.		Keynote Speech	ZnO Material Growth, Nanostructures and Devices	ACCG, Bedminster, NJ, November 16, 2005.	Radio/PHY
Lu, Y.		Invited Talk	ZnO Detectors and Other Devices	Proceedings of EMRS 2005 Spring Meeting, June 2005.	Radio/PHY
Luo, J.	Blum, R.S., Cimini, L.J., Greenstein, L.J. and Haimovich, A.M.	Conference Paper	Decode-and-Forward Cooperative Diversity with Power Allocation in Wireless Networks	Proceedings of the 48 <sup>th</sup> Annual IEEE Global Telecommunications Conference (GLOBECOM 2005) St. Louis, MO, November 2005, pp. 3048-3052.  Transactions on Wireless Communications, Vol. 6, No. 3, pp. 793-799, March 2007.	Radio/PHY
Luo, J.	Yates, R.D. and Spasojevic, P.	Journal Paper	Service Outage Based Power and Rate Allocation for Parallel Fading Channels	IEEE Transactions on Information Theory, Vol. 51, No. 7, pp. 2594-2611, July 2005.	Radio/PHY

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Luo, J.	Blum, R., Cimini, L.J., Greenstein, L.J. and Haimovich, A.M.	Journal Paper	Power Allocation in a Transmit Diversity System with Mean Channel Gain Information	IEEE Communication Letters, Vol. 9, No. 7, pp. 616-618, July 2005.	Radio Resource Management
Luo, J.	Blum, R., Cimini, L.J., Greenstein, L.J. and Haimovich, A.M.	Conference Paper	Link Failure Probabilities for Practical Cooperative Relay Networks	Proceedings of the IEEE Vehicular Technology Conference (VTC'05-Spring), Stockholm, Sweden, May 2005, pp. 1489-1493.	Radio Resource Management
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 <sup>th</sup> Euro-NGI Conference on Next Generation Internet Networks, (NGI 2008), Krakow, Poland, April 2008, pp. 215-222.	Mobile Networks
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 <sup>th</sup> International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (ACM Tridentcom 2008), Innsbruck, Austria, March 2008.	Mobile Networks
Maric, I.	Yates, R.D. and Kramer, G.	Journal Paper	Capacity of Interference Channels with Partial Transmitter Cooperation	IEEE Transactions on Information Theory, Vol. 53, No. 10, pp. 3536-3548, October 2007.	Radio Resource Management
Maric, I.	Yates, R.D. and Kramer, G.	Conference Paper	The Strong Interference Channel with Unidirectional Cooperation	Proceedings of the Inaugural Workshop for Information Theory and Applications (ITA), San Diego, CA, February 2006.	Radio Resource Management
Maric, I.	Yates, R.D. and Kramer, G.	Invited Paper	The Capacity Region of the Strong Interference Channel with Common Information	Proceedings of the 39 <sup>th</sup> Asilomar Conference on Signals, Systems and Computers, Monterey, CA, November 2005, pp. 1737-1741.	Radio/PHY



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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Maric, I.	Yates, R.D. and Kramer, G.	Conference Paper	The Discrete Memoryless Compound Multiple Access Channel with Conferencing Encoders	Proceedings of the IEEE International Symposium on Information Theory (ISIT '05), Adelaide, Australia, September 2005, pp. 407-410.	Radio Resource Management
Maric, I.	Yates, R.D. and Kramer, G.	Conference Paper	The Strong Interference Channel with Common Information	Proceedings of the 43 <sup>rd</sup> Annual Allerton Conference on Communications, Control and Computing, Monticello, IL, September 2005.	Radio Resource Management
Maric, I.	Yates, R.D.	Journal Paper	Cooperative Multicast for Maximum Network Lifetime	Journal on Selected Areas in Communications (JSAC) Special Issue on Wireless Ad Hoc Networks, Vol.23, No. 1, pp.127-135, January 2005.	Radio Resource Management
Mathur, S.	Trappe, W. Mandayam, N., Ye, C. and Reznik, A.	Conference Paper	Radio-Telepathy: Extracting a Secret Key from an Unauthenticated Wireless Channel	Proceedings of the 14 <sup>th</sup> Annual International Conference on Mobile Computing and Networking (MOBICOM 2008), San Francisco, CA, September 2008, pp. 128-139.	Radio Resource Management
Mathur, S.	Sankar, L., Mandayam, N.B.	Journal Paper	Coalitions in Cooperative Wireless Networks	To appear in the Journal on Selected Areas in Communications – Special Issue on Game Theory in Communications Systems.	Radio Resource Management
Mathur, S.	Sankaranarayanan, L. and Mandayam, N.B.	Conference Paper	Coalitional Games in Cooperative Radio Networks	Proceedings of the 40 <sup>th</sup> Asilomar Conference on Signals, Systems and Computers (ACSSC '06), Pacific Grove, CA, November 2006, pp. 1927-1931.	Radio Resource Management
Mathur, S.	Sankaranarayanan, L. and Mandayam, N.B.	Conference Paper	Coalitional Games in Gaussian Interference Channels	Proceedings of the 2006 International Symposium on Information Theory (ISIT 2006), Seattle, WA, July 2006, pp. 2210-2214.	Radio Resource Management
Mathur, S.	Sankaranarayanan, L. and Mandayam, N.B.	Conference Paper	Coalitional Games in Receiver Cooperation for Spectrum Sharing	Proceedings of the Conference on Information Sciences and Systems (CISS '06), Princeton, NJ March 2006, pp. 949-954.	Radio Resource Management
Mehta, N.B.	Molisch, A.F. and Greenstein, L.	Journal Paper	Macrocell-Wide Behavior of the Orthogonality Factor in WCDMA Downlinks	IEEE Transactions on Wireless Communications, Vol. 5, No. 12, pp. 3394-3399, December 2006.	Radio/PHY
Mehta, N.B.	Molisch, A.F. and Greenstein, L.	Journal Paper	Statistics of Orthogonality Factor in COST259 Macrocellular Environments for WCDMA Downlinks	To appear in IEEE Transactions on Wireless Communications	Radio/PHY
Mehta, N.B.	Molisch, A.F. and Greenstein, L.J.	Conference Paper	Orthogonality Factor in WCDMA Downlinks in Urban Microcellular Environments	Proceedings of the 48 <sup>th</sup> Annual IEEE Global Telecommunications Conference (GLOBECOM 2005) St. Louis, MO, November 2005, pp. 3378-3382.	Radio/PHY
Meshkati, F.	Poor, H.V., Schwartz, S.C. and Mandayam, N.B.	Journal Paper	An Energy-Efficient Approach to Power Control and Receiver Design in Wireless Data Networks	IEEE Transactions on Communications, Vol. 53, No. 11, pp. 1885-1894, November 2005.	Radio Resource Management
Meshkati, F.	Chiang, M., Schwartz, S.C., Poor, H.V. and Mandayam, N.B.	Conference Paper	A Non-Cooperative Power Control Game for Multi-carrier CDMA Systems	Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2005), New Orleans, March 2005, pp. 606-611.	Radio Resource Management

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

(2005 to Fall 2008)

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Miljanic, Z.	Spasojevic, P.	Conference Paper	Resource Virtualization and Programmable Radio Processing Platform	Proceedings of the 4 <sup>th</sup> International Wireless Internet Conference (WICON 2008), Maui, HI, November 2008.	Radio/PHY
Miller, R.	Xu, W., Kamat, P. and Trappe, W.	Conference Paper	Service Discovery and Device Identification in Cognitive Radio Networks	Proceedings of the 2 <sup>nd</sup> 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 <sup>th</sup> 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., Shamai, 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
Oh, S.	Gruteser, M.	Conference Paper	Location-Based Flooding Techniques for Vehicular Emergency Messaging	Proceedings of the Second International Workshop on Vehicle-to-Vehicle Communications (V2VCOM, held in conjunction with MOBIQUITOUS), San Jose, CA, July 2006, pp. 1-9.	Mobile Computing
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
Popescu, D.C.	Popescu, O. and Rose, C.	Journal Paper	Interference Avoidance and Multiaccess Vector Channels	IEEE Transactions on Communications, Vol. 55, No. 8, pp. 1466-1471, August 2007.	Radio Resource Management

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Popescu, D.C.	Rose, C.	Journal Paper	Codeword Optimization for Uplink CDMA Dispersive Channels	IEEE Transactions on Wireless Communications, Vol. 4, No. 4, pp.1563-1574, July 2005.	Radio/PHY
Popescu, O.	Popescu, D. and Rose, C.	Journal Paper	Simultaneous Water Filling in Mutually Interfering Systems	IEEE Transactions on Wireless Communications, Vol. 6, No. 3, pp. 1102-1113, March 2007.	Radio Resource Management
Popescu, O.	Popescu, D. and Rose, C.	Conference Paper	Interference Avoidance for Capacity Optimization in Mutually Interfering Wireless Systems	Proceedings of the 62 <sup>nd</sup> IEEE Vehicular Technology Conference (VTC 2005 Fall), Dallas, TX, September 2005, pp. 593-597.	Radio Resource Management
Popescu, O.	Popescu, D. and Rose, C.	Conference Paper	Greedy Interference Avoidance in Non-Collaborative Multi-Base Wireless Systems	Proceedings of the 39 <sup>th</sup> Conference on Information Sciences and Systems (CISS 2005) Baltimore, MD, March 2005.	Radio Resource Management
Qian, L.	Gajic, Z.	Journal Paper	Variance Minimization Stochastic Power Control in CDMA Networks	IEEE Transactions on Wireless Communications, Vol. 5, No.1, pp.193-202, January 2006.	Radio Resource Management
Rajappan, G.	Acharya, J., Liu, H., Mandayam, N., Seskar, I. And Yates, R.	Conference Paper	Mobile Infostation Network Technology	Proceedings of the Wireless Sensing and Processing Symposium (part of the SPIE Defense and Security Symposium), Kissimmee, FL, April 2006.	Radio Resource Management
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
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 <sup>th</sup> 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 802.11Wireless Networks	Proceedings of the IEEE International Conference on Communications, (ICC 2006) Istanbul, Turkey, June 2006, pp. 4818-4823.	Mobile Networks

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(2005 to Fall 2008)

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
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
Raman, C.	Kalyanam, J., Seskar, I. And Mandayam, N.	Conference Paper	Distributed Spatio-temporal Sensing: An Experimental Study	Proceedings of the Asilomar Conference on Signals, Systems and Computers, Pacific, Grove, CA, November 2007, pp. 2063-2067.	Radio Resource Management
Raman, C.	Yates, R.D. and Mandayam, N.B.	Invited Paper	Cross-Layer Scheduling of End-to-End Flows Using a Spectrum Server	Proceedings of the Conference on Information Sciences and Systems (CISS 2006), Princeton, NJ, March 2006, pp. 945-948.	Radio Resource Management
Raman, C.	Yates, R.D., Mandayam, N.B.	Conference Paper	Scheduling Variable Rate Links via a Spectrum Server	Proceedings of the IEEE Symposium on New Frontiers in Dynamic Spectrum Access Networks (DySPAN 2005), Baltimore, MD, November 2005, pp. 110-118.	Radio Resource Management
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 <sup>rd</sup> 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
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 <sup>nd</sup> 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

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
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
Reznik, A.	Mathur, S., Shah, Y. Goldberg, S., Trappe, W. and Mandayam, N.	Conference Paper	Total Wireless Security: Moving Closer to the Goal with Low-Layer Techniques	Proceedings of the Wireless World Research Forum, 2008.	Radio Resource Management
Rose, C.		Invited Talk	Finding the Profound Amid the Mundane: Communications Theory as a Window on the Physical World	iCORE Summit 2006, Banff, May 23, 2006.	Radio Resource Management
Rose, C.		Invited Talk	If ET Writes, What Might We Look For?	Conference on Space Archaeology, British Interplanetary Society, May 10, 2006, London, UK.	Radio Resource Management
Sahoo, R.K.	Squillante, M.S., Sivasubramaniam, A. and Zhang, Y.	Conference Paper	Failure Data Analysis of a Large Scale Heterogeneous Server Environment	Proceedings of the 2004 International Conference on Dependable Systems and Networks (DSN 2004) Florence, Italy, July 2004, pp. 772-781.	Mobile Computing
Samardzija, D.	Mandayam, N.B.	Journal Paper	Impact of Pilot Design on Achievable Rates in Multiple Antenna Multiuser TDD Systems	IEEE Journal on Selected Areas of Communications, Vol. 25, No. 7, September 2007, pp. 1370-1379.	Radio/PHY
Samardzija, D.	Xiao, L. and Mandayam, N.B.	Conference Paper	Impact of Pilot Assisted Channel State Estimation on Multiple Antenna Multiuser TDD Systems with Spatial Filtering	Proceedings of the Conference on Information Sciences and Systems, (CISS 2006), Princeton, NJ, March 2006, pp. 381-385.	Radio/PHY

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Samardzija, D.	Mandayam, N.B.	Conference Paper	Unquantized and Uncoded Channel State Information Feedback on Wireless Channels	Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2005), New Orleans, LA, March 2005, pp. 1059-1065.	Radio/PHY
Sankar, L.	Kramer, G. and Mandayam, N.B.	Journal Paper	Offset Encoding for Multiple Access Relay Channels	IEEE Transactions on Information Theory, Vol. 53, No. 10, pp. 3814-3821, October 2007.	Radio Resource Management
Sankar, L.	Kramer, G. and Mandayam, N.	Conference Paper	Cooperation vs. Hierarchy: An Information-theoretic Comparison	Proceedings of the International Symposium on Information Theory, Adelaide, Australia, September 2005, pp. 411-415.	Radio Resource Management
Sankar, L.	Kramer, G. and Mandayam, N.	Conference Paper	Cooperative Diversity in Wireless Networks: A Geometry-inclusive Analysis	Proceedings of the 43 <sup>rd</sup> Annual Allerton Conference on Communications, Control and Computing, Allerton, IL, September 2005.	Radio Resource Management
Saraf, G.	Zhong, J., Dulub, O., Diebold, U., Siegrist, T. And Lu, Y.	Journal Paper	Surface and Interface Properties of MOCVD Grown A-Plane Mg <sub>x</sub> Zn <sub>1-x</sub> O (0<X<=0.3)	To appear in Journal of Electronic Materials, 2007.	Radio/PHY
Saraf, G.	Zhong, J., Lu, Y., Dulub, O., Diebold, U., Siegrist, T.	Conference Paper	Surface and Interface Characterization of A-Plane ZnO and Mg <sub>x</sub> Zn <sub>1-x</sub> O Films	Proceedings of the 48 <sup>th</sup> TMS Electronic Materials Conference, Pennsylvania State University, University Park, PA, June 2006, p.71	Radio/PHY
Saraf, G.	Chen, Y., Siegrist, T., Wielunski, L.S. and Lu, Y.	Journal Paper	Hybrid Deposition of Piezoelectric $(1\bar{1}\bar{2}0)$ Mg <sub>x</sub> Zn <sub>1-x</sub> O $0 \leq x \leq 0.3$ on $(01\bar{1}2)$ R-Sapphire Substrates Using RF Sputtering and MOCVD	To appear in TMS and IEEE Journal of Electronic Materials, June 2006.	Radio/PHY
Shin, O-S.	Ghassemzadeh, S.S., Tarokh, V. and Greenstein, L.J.	Conference Paper	Performance Evaluation of MB-OFDM and DS-UWB Systems for Wireless Personal Area Networks	Proceedings of the International Conference on UWB (ICU), Zurich, Switzerland, September 2005.	Radio/PHY
Singh, J.	Raman, C., Yates, R.D. and Mandayam, N.	Conference Paper	Random Access for Variable Rate Links	Proceedings of the 2006 Military Communications Conference, Washington, DC, October 2006, pp. 1-6.	Radio Resource Management
Singh, J.	Rose, C.	Conference Paper	Channel Probing Under a Power Budget	Proceedings of the Conference on Information Sciences and Systems (CISS '06), Princeton, NJ, March 2006, pp. 487-491.	Radio Resource Management
Singh, M.	Ott, M., Seskar, I. and Kamat, P.	Conference Paper	ORBIT Measurements Framework and Library (OML): Motivations, Design, Implementation, and Features	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. 146-152.	Mobile Networks
Sorooshiyari, S.	Gajic, Z.	Journal Paper	Autonomous Dynamic Power Control for Wireless Networks: Joint User-Centric and Network-Centric Consideration	IEEE Transactions on Wireless Communications Vol. 7, No. 3, pp. 1004-1015, March 2008.	Mobile Networks
Sun, M.	Lu, Y.	Journal Paper	Non-Linearity in ESD Robust InGaAs p-i-n Photodiode	To appear in IEEE Transactions on Electron Devices.	Radio/PHY

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Sun, M.	Lu, Y.	Journal Paper	A New ESD Protection Structure for High Speed GaAs RF Ics	IEEE Electron Device Letters, Vol. 36, No. 3, pp.133-135, March 2005.	Radio/PHY
Sun, M.	Lu, Y.	Journal Paper	ESD Protection FOR 10 Gb/s Optical Receivers	IEEE Electronic Letters, Vol. 41, No. 2, pp. 68-69, January 2005.	Radio/PHY
Sun, Y.	Trappe, W. and Liu, K.J.R.	Book	Network-Aware Security for Group Communications	Springer-Verlag, under development for release in 2007.	Mobile Computing
Sun, X.	Cimini, L.J., Greenstein, L.J., Chan, D. and Douglas, B.	Conference Paper	Performance of Quantized Feedback Beamforming in MIMO-OFDM Links over Time-Varying Frequency-Selective Channels	Proceedings of the 2007 Military Communications Conference (MILCOM 2007), Orlando, FL, October 2007, pp. 1-6.	Radio/PHY
Sun, X.	Cimini, L.J., Chan, D. and Greenstein, L.J.	Conference Paper	Enhanced IEEE 802.11n Quantized Feedback Beamforming with Power Allocation	Proceedings of the Conference on Information Sciences and Systems (CISS '08), Princeton, NJ, March 2008, pp. 908-912.	Radio/PHY
Sun, X.	Cimini, L.J., Greenstein, L.J., Chan, D. and Douglas, B.	Conference Paper	Performance Evaluation of Quantized Feedback Beamforming in IEEE 802.11n Wireless Networks	Proceedings of the Conference on Information Sciences and Systems (CISS 2007), Baltimore, MD, March 2007, pp. 884-888.	Radio/PHY
Tang, X.	Liu, R., Spasojevic P. and Poor, H.V.	Journal Paper	On the Throughput of Secure Hybrid-ARQ Protocols for Gaussian Block-fading Channels	To appear in IEEE Transactions on Information Theory, 2009.	Radio/PHY
Tang, X.	Liu, R., Spasojevic, P. and Poor, H.V.	Conference Paper	The Gaussian Wiretap Channel with a Helping Interferer	Proceedings of IEEE International Symposium on Information Theory (ISIT 2008), Toronto, Ontario, Canada, July 2008, pp. 389-393.	Radio/PHY
Tang, X.	Liu, R., Spasojevic, P. and Poor, H.V.	Conference Paper	Interference-Assisted Secret Communication	Proceedings of the IEEE Information Theory Workshop (ITW 2008), Porto, Portugal, May 2008, pp. 164-168.	Radio/PHY
Tang, X.	Liu, R., Spasojevic, P. and Poor, H.V.	Conference Paper	Coding Schemes for Confidential Communications	Proceedings of Workshop on Information Theory and Applications (ITA 2008), UCSD, La Jolla, CA, Jan/Feb 2008, pp. 370-378.	Radio/PHY
Tang, X.	Liu, R., Spasojevic, P. and Poor, H.V.	Conference Paper	Multiple Access Channels with Generalized Feedback and Confidential Messages	Proceedings of the IEEE Information Theory Workshop on Frontiers in Coding Theory (ITW 2007), Lake Tahoe, CA, September 2007, pp. 608-613.	Radio/PHY
Tang, X.	Liu, R. and Spasojevic, P.	Conference Paper	An Achievable Secrecy Throughput of Hybrid-ARQ Protocols for Block-Fading Channels	Proceedings of the IEEE International Symposium on Information Theory (ISIT 2007), Nice, France, June 2007, pp. 1311-1315.	Radio/PHY
Tang, X.	Liu, R. and Spasojevic, P.	Conference Paper	On the Achievable Secrecy Throughput of Block-Fading Channels with no Channel State Information at the Transmitter	Proceedings of the IEEE Conference on Information Sciences and Systems (CISS 2007), Baltimore, MD, March 2007, pp. 917-922.	Radio/PHY
Taratula, O.	Galoppini, E., Wang, D., Chu, D., Zhang, Z., Chen, H., Saraf, G. and Lu, Y.	Journal Paper	Binding Studies of Molecular Linkers to ZnO and MgZnO Nanotip Films	Journal of Physical Chemistry B, Vol. 110, No. 13, pp. 6506-6515, April 2006.	Radio/PHY



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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Trappe, W.	Washington, L.C.	Book	Introduction to Cryptography with Coding Theory	Prentice Hall, (First Edition 2001, Second Edition 2005)	Mobile Computing
Trappe, W.	Zhang, Y. and Nath, B.	Conference Paper	MIAMI: Methods and Infrastructure for the Assurance of Measurement Information	Proceedings of the 2 <sup>nd</sup> International VLDB Workshop on Data Management for Sensor Networks, Trondheim, Norway, August 2005, pp. 11-17.	Mobile Computing
Trappe, W.	Wang, Y. and Liu, K.J.R.	Journal Paper	Resource-Aware Conference Key Establishment for Heterogeneous Networks	IEEE/ACM Transactions on Networking, Vol. 13, pp. 134-146, February 2005.	Mobile Computing
Trappe, W.	Wu, M., Wang, Z.J. and Liu, K.J.R.	Journal Paper	Anti-collusion Fingerprinting for Multimedia	IEEE Transactions on Signal Processing Vol. 51, No. 4, pp. 1069-1087, April 2003. *****IEEE SPS Best Paper Award 2005*****	Mobile Computing
Wang, H.	Mandayam, N.B.	Journal Paper	Opportunistic File Transfer Over a Fading Channel Under Energy and Delay Constraints	IEEE Transactions on Communications, Vol. 53, No. 4, pp. 632-644, April 2005.	Radio/PHY
Wang, Z.J.	Wu, M., Zhao, H.V., Trappe, W. and Liu, K.J.R.	Journal Paper	Anti-Collusion Forensics of Multimedia Fingerprinting Using Orthogonal Modulation	IEEE Transactions on Image Processing, Vol. 14, No. 6, pp. 804-821, June 2005.	Mobile Computing
Wang, Z.J.	Wu, M., Trappe, W. and Liu, K.J.R.	Journal Paper	Group Oriented Fingerprinting for Multimedia Forensics	EURASIP Journal of Applied Signal Processing, pp. 2153-2173, October 2004. ***** (2005 EURASIP Best Paper Award)*****	Mobile Computing
Willis, T.M.	Greenstein, L.J.	Conference Paper	Propagation Modeling and Other Challenges for Non-Line-of Sight Wireless Systems in the 4-6 GHz Bands	Proceedings of the IEEE International Microwave Symposium, San Francisco, CA, June 2006, pp. 835-838.	Radio/PHY
Wittstruck, R.H.	Emanetoglu, N.W., Lu, Y., Laffey, S. and Ballato, A.	Journal Paper	Properties of Transducers and Substrates for High Frequency Resonators and Sensors	Journal of the Acoustic Society of America, Vol. 118, No. 3, pp. 1414-1423, September 2005.	Radio/PHY
Wu, D.	Spasojevic, P.	Conference Paper	Adaptive Rate QS-CDMA UWB Systems Using Ternary OVFS Codes with a Zero-Correlation Zone	Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2006), Las Vegas, NV, April 2006, pp. 1068-1073.	Radio/PHY
Wu, D.	Spasojevic, P.	Conference Paper	Acquisition of the Kronecker Sequence Using Recursive Soft Sequential Estimation for DS-SS Systems in Multipath Channels	Proceedings of the 39 <sup>th</sup> Conference on Information Sciences and Systems (CISS '05), Baltimore, MD, March 2005.	Radio/PHY
Wu, D.	Spasojevic, P. and Seskar, I.	Conference Paper	Orthogonal Variable-Spreading-Factor Codes with Zero-Correlation Zone for TS-UWB	IEEE Wireless Communications and Networking Conference 2005 (WCNC '05), New Orleans, LA, March 2005, pp. 807-812.	Radio/PHY
Wu, P.	Saraf, G., Hill, D.H., Arena, D.A., Bartynski, R.A., Cosandey, F., Al Sharab, J.F., Wielunski, L., Gateau, R. Dvorak, J., Moodenbaugh, A., Raley, J.A., Yeo, Y.K. and Lu, Y.	Journal Paper	Magnetic Properties of Fe Implanted ZnO Nanotips	To appear in the Journal of Electronic Materials, 2007.	Radio/PHY
Wu, P.	Saraf, G., Lu, Y., Hill, D.H., Arena, D.A., Bartynski, R.A., Wielunski, L., Raley, J.A. and Yeo, Y-K.	Conference Paper	Ferromagnetism in Fe-implanted ZnO Films and Nanotips	Proceedings of the 48 <sup>th</sup> TMS Electronic Materials Conference, Pennsylvania State University, University Park, PA, June 2006, pp. 104.	Radio/PHY

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

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Wu, P.	Saraf, G., Lu, Y., Hill, D.H., Arena, D.A., Bartynski, R.A., Wielunski, L., Raley, J.A. and Yeo, Y-K.	Journal Paper	Ferromagnetism in Fe-implanted ZnO Films and Nanotips	To appear in the Journal of Electronics Materials, 2006.	Radio/PHY
Wu, P.	Saraf, G., Lu, Y., Hill, D.H., Bartynski, A., Siegrist, T., Ryu, M. Raley, J.A. and Yeo, Y.K.	Journal Paper	Room Temperature Ferromagnetism in Fe-implanted a-plane ZnO Films	To appear in Applied Physics Letters, 2006.	Radio/PHY
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
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.B. and Trappe, W.	Journal Paper	Using the Physical Layer for Wireless Authentication in Time-variant Channels	IEEE Transactions of Wireless Communications, Vol. 7, No. 9, pp. 2571-2579, July 2008.	Radio/PHY
Xiao, L.	Greenstein, L.J., Mandayam, N.B. and Periyalwar, S.	Journal Paper	Distributed Measurements for Estimating and Updating Cellular System Performance	IEEE Transactions on Communications, Vol. 56, No. 6, pp. 991-998, June 2008	Radio/PHY
Xiao, L.	Greenstein, L.J., Mandayam, N.B. and Trappe, W.	Conference Paper	A Physical-Layer Technique to Enhance Authentication for Mobile Terminals	Proceedings of the IEEE International Conference on Communications (ICC '08), Beijing, China, May 2008, pp. 1520-1524.	Radio/PHY
Xiao, L.	Greenstein, L.J., Mandayam, N.B. and Trappe, W.	Conference Paper	MIMO-Assisted Channel-Based Authentication in Wireless Networks	Proceedings of the Conference on Information Sciences and Systems (CISS '08), Princeton, NJ, March 2008, pp. 642-646.	Radio/PHY
Xiao, L.	Greenstein, L.J., and Mandayam, N.B.	Journal Paper	Sensor-assisted Localization in Cellular System	IEEE Transactions of Wireless Communications, Vol. 6, No. 12, pp. 4244-4248, December 2007.	Radio/PHY
Xiao, L.	Greenstein, L.J., Mandayam, N.B. and Trappe, W.	Conference Paper	Fingerprints in the Ether: Using the Physical Layer for Wireless Authentication	Proceedings of the IEEE International Conference on Communications (ICC 2007), Glasgow, Scotland, June 2007, pp. 4646-4651.	Radio/PHY
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 <sup>th</sup> 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 <sup>th</sup> ACM Conference on Embedded Networked Sensor System (SenSys 2006), Boulder, CO, November 2006, pp. 403-404.	Mobile Networks

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

(2005 to Fall 2008)

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
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 <sup>th</sup> ACM International Symposium on Mobile Ad Hoc Networking and Computing (MOBIHOC 2005), Urbana, IL, May 2005, pp. 46-57.	Mobile Networks
Yates, R.D.	Tse, D. and Li, Z.	Conference Paper	Secret Communication on Interference Channels	Proceedings of the IEEE International Symposium on Information Theory (ISIT), Toronto, Canada, July 2008, pp. 374-378.	Radio Resource Management
Yates, R.D.	Raman, C. and Mandayam, N.B.	Conference Paper	Fair and Efficient Scheduling of Variable Rate Links via a Spectrum Server	Proceedings of the IEEE International Conference on Communications, Istanbul, Turkey, June 2006, pp. 5246-5251.	Radio Resource Management
Yu, S.	Zhang, Y.	Conference Paper	R-Sentry: Providing Continuous Sensor Services Against Random Node Failures	Proceedings of the 37 <sup>th</sup> 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 <sup>th</sup> 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 <sup>th</sup> 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
Zhang, Z.	Chen, H., Zhong, J., Lu, Y., Rivillon, S., Chabal, Y.J., Nuber, A. and Madey, T.	Conference Paper	The Fast and Reversible Wettability Transitions of ZnO Nanostructures	To appear in the Proceedings of the 2006 II-VI Workshop, Newport Beach, CA, October 2006.  JEM web published online May 10, 2007.	Radio/PHY

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Zhang, Z.	Chen, H., Zhong, J., Chen, Y. and Lu, Y.	Conference Paper	ZnO Nanotip-based QCM Biosensors	Proceedings of the 2006 IEEE Frequency Control Symposium, Miami, FL, Miami, FL, June 2006, pp. 545-549.	Radio/PHY
Zhang, Z.	Emanetoglu, N.W., Saraf, G., Chen, Y., Wu, P., Zhong, J., Lu, Y., Chen, J., Mirochnitchenko, O., and Inouye, M.	Journal Paper	DNA Immobilization and SAW Response in ZnO Nanotips Grown on LiNbO <sub>3</sub> Substrates	IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control, Vol. 53, No.4, pp. 786-792, April 2006.	Radio/PHY
Zhang, Z.	Emanetoglu, N.W., Saraf, G., Chen, Y., Wu, P., Zhong, J. and Lu, Y.	Journal Paper	SAW Bio-Sensor Using ZnO Nanostructures in LiNbO <sub>3</sub> Substrate	Accepted by IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control.	Radio/PHY
Zhao, S.	Raychaudhuri, D.	Conference Paper	Multi-tier Ad Hoc Mesh Networks with Radio Forwarding Nodes	Proceedings of the 50 <sup>th</sup> 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
Zhong, J.	Saraf, G., Chen, H., Lu, Y., Ng, Hoch M., Siegrist, T., Parekh, A., Lee, D. and Armour, E.A.	Journal Paper	Structural and Optical Properties of ZnO Nanotips Grown on GaN Using Metalorganic Chemical Vapor Deposition	To appear in TMS & IEEE Journal of Electronics Materials	Radio/PHY
Zhong, J.	Chen, H., Saraf, G., Lu, Y., Choi, C.K., Song, J.J., Mackie, D.M. and Shen, H.	Journal Paper	Integrated ZnO Nanotips on GaN Light Emitting Diodes for Enhanced Emission Efficiency	Applied Physical Letters, Vol. 90, N. 20, May 2007.	Radio/PHY
Zhong, J.	Chen, H., Saraf, G., Lu, Y., Ng, H.M., Choi, C.K., Song, J.J.	Conference Paper	Photoluminescence and Electroluminescence Properties of ZnO Nanotips Grown on P-Type GaN	Proceedings of the 48 <sup>th</sup> TMS Electronic Materials Conference, Pennsylvania State University, University Park, PA, June 2006, p.89	Radio/PHY
Zhong, J.	Saraf, G., Chen, H., Lu, Y., Ng, H.M., Siegrist, T., Parekh, A. and Armour, E.A.	Journal Paper	Structural and Optical Properties of ZnO Nanotips Grown on GaN Using Metalorganic Chemical Vapor Deposition	To appear in TMS & IEEE Journal of Electronics Materials, 2006.	Radio/PHY
Zhong, J.	Saraf, G., Chen, H., Lu, Y., Ng, H.M., Siegrist, T., Parekh, A., Lu, D., Armour, E.A.,	Conference Paper	Structural and Optical Properties of ZnO Nanotips Grown on GaN	Proceedings of 2005 Electronic Materials Conference, Santa Barbara, CA, June 2005.	Radio/PHY
Zhu, J.	Chen, Y., Saraf, G., Emanetoglu, N.W. and Lu, Y.	Conference Paper	ZnO Based Multimode Voltage Tunable SAW Devices	Proceedings of the 4 <sup>th</sup> International Workshop on ZnO and Related Materials, University of Giessen, Germany, October 2006.	Radio/PHY

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

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Zhu, J.	Chen, Y., Saraf, G., Emanetoglu, N.W. and Lu, Y.	Journal Paper	Voltage Tunable Surface Acoustic Wave Phase Shifter Using Semiconducting/ Piezoelectric ZnO Dual Layers Grown on r-A1 <sub>2</sub> O <sub>3</sub>	Applied Physical Letters, Vol. 89, pp 103513, 2006.	Radio/PHY
Zhu, J.	Saraf, G., Zhong, J., Sheng, H.F., Yakshinskiy, B.V. and Lu, Y.	Journal Paper	SiCl <sub>4</sub> -Based Reactive Ion Etching of ZnO and Mg <sub>x</sub> Zn <sub>1-x</sub> O Films on R-sapphire Substrates	TMS & IEEE Journal on Electronic Materials, Vol.35, No.6, pp.1311-1315, June 2006.	Radio/PHY