

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Ashok, A.	Gruteser, M., Mandayam, N., Won, T., Yuan, W., Varga, M. and Dana, K.	Conference Paper	Rate Adaptation in Visual MIMO	Proceedings of the IEEE Conference on Sensor, Mesh and Ad Hoc communications and Networks (SECON 2011), Salt Lake City, UT, June 2011, pp. 583-591.	Radio/PHY
Ashok, A.	Gruteser, M., Mandayam, N. and Dana, K.	Conference Paper	Characterizing Multiplexing and Diversity in Visual MIMO	Proceedings of the 45 th Annual Conference on Information Sciences and Systems (CISS 2011), Baltimore, MD, March 2011, pp. 1-6.	Radio/PHY
Baid, A.	Madan, R. and Sampath, A.	Conference Paper	Delay Estimation and Fast Iterative Scheduling Policies for LTE Uplink	Proceedings of the RAWNET Workshop held in conjunction with the 10 th International Symposium of Modeling and Optimization of Mobile, Ad Hoc and Wireless Networks (WiOpt 2012), Paderborn, Germany, May 2012, pp. 89-96.	Radio/PHY
Baid, A.	Mathur, S., Seskar, I., Paul, S., Das, A. and Raychaudhuri, D.	Conference Paper	Spectrum MRI: Towards Diagnosis of Multi-Radio Interference in the Unlicensed Band	Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2011), Cancun, Mexico, March 2011, pp. 534-539.	Radio/PHY
Borota, D.	Ivkovic, G., Vuyyuru, R., Altintas, O., Seskar, I. and Spasojevic, P.	Conference Paper	On the Delay to Reliably Detect Channel Availability in Cooperative Vehicular Environments	Proceedings of the 2011 IEEE 73 rd Vehicular Technology Conference, Budapest, Hungary, May 2011, pp. 1-5.	Radio/PHY
Budisin, S.	Spasojevic, P.	Journal Paper	Bjorck Sequence Sets	Electronic Letters, Vol. 47, No. 8, pp. 491-493, April 2011.	Radio/PHY
Chandrasekaran, G.	Vu, T., Varshavsky, A., Gruteser, M., Martin, R., Yang, J. and Chen, Y.	Conference Paper	Tracking Vehicular speed Variations by Warping Mobile Phone Signal Strengths	Proceedings of the IEEE International Conference on Pervasive Computing and Communications, Seattle, WA, March 2011, pp. 213-221.	Radio/PHY
Chandrasekaran, G.	Ergin, M.A., Gruteser, M., Martin, R.P., Yang, J. and Chen, Y.	Conference Paper	DECODE: Exploiting Shadow Fading to DEtect COMoving Wireless Devices	IEEE Transactions on Mobile Computing, Vol. 8, No. 12, pp. 1663-1675, December 2009.	Radio/PHY
Chatzipanagiotis, N.	Liu, Y., Petropulu, A. and Zavlanos, M.M.	Conference Paper	Controlling Groups of Mobile Beamformers	To appear in the Proceedings of the 51 st IEEE Conference on Decision and Control (CDC 2012), Maui, Hawaii, December 2012.	Radio/PHY
Dong, Lun	Han, Z., Petropulu, A. and Poor, H.V.	Journal Paper	Improving Wireless Physical Layer Security via Cooperating Relays	IEEE Transactions on Signal Processing, Vol. 58, Issue 3, Part 2, pp. 1875-1888, March 2010.	Radio/PHY
Fok, M.P.	Trappe, W. and Prucnal, P.R.	Conference Paper	All-Optical XOR Gate with Feedback Using Highly Ge-doped Nonlinear Fiber	Proceedings of the 2010 Conference on Optical Fiber Communication (OFC) collocated National Fiber Optic Engineers Conference (NFOEC), San Diego, CA, March 2010, pp. 1-3.	Radio/PHY
Goratti, L.	Wysocki, T., Akhavan, R., Lei, J., Nakase, H. and Kato, S.	Conference Paper	Optimal Beamwidth for Beacon and Contention Access Periods in IEEE 802.15.3c WPAN	Proceedings of the 21st Personal, Indoor and Mobile Radio Conference (PIMRC 2010), Istanbul, Turkey, September 2010, pp. 1395-1400.	Radio/PHY
Greenstein, L.J.	Ghassemzadeh, S.S., Erceg, V. and Michaelson, D.G.	Journal Paper	Ricean K-Factors in Narrowband Fixed Wireless Channels: Theory, Experiments and Statistical Models	IEEE Transactions on Vehicular Technology, Vol. 58, No. 8, pp. 4000-4012, October 2009.	Radio/PHY
Grokop, L.H.	Tse, D.N.C and Yates, R.D.	Journal Paper	Interference Alignment for Line-of-Sight Channels	IEEE Transactions on Information Theory, Vol. 57, No. 9, pp. 5820-5839, September 2011.	Radio/PHY

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Ivkovic, G.	Spasojevic, P. and Seskar, I.	Conference Paper	Mean Shift Based Segmentation for Time-Frequency Analysis of Packet Based Radio Signals	Proceedings of the 44 th Annual Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA, November 2010.	Radio/PHY
Ivkovic, G.	Spasojevic, P. and Seskar, I.	Conference Paper	Single Sensor Radio Scene Analysis for Packet Based Radio Signals	Proceedings of the 2010 Information Theory and Applications Workshop, San Diego, CA, Jan/Feb 2010.	Radio/PHY
Kaya, A.O.	Greenstein, L.J.	Conference Paper	A New Path Loss Modeling Approach for In-Building Wireless Networks	To appear in the Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM 2012), Anaheim, CA, December 2012.	Radio/PHY
Kaya, A.O.	Trappe, W., Greenstein, L.J. and Chizhik, D.	Journal Paper	Predicting MIMO Performance in Urban Microcells Using Ray Tracing to Characterize the Channel	IEEE Transactions on Wireless Communications, Vol. 11, No. 7, pp. 2402-2411, July 2012.	Radio/PHY
Kaya, A.O.	Trappe, W. and Greenstein, L.	Conference Paper	Adapting MIMO Transmission Mode Along Paths in Urban Environments	Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2010), Dallas, TX, March 2010, pp. 3462-3465.	Radio/PHY
Kaya, A.O.	Greenstein, L. and Trappe, W.	Journal Paper	Characterizing Indoor Wireless Channels via Ray Tracing Combined with Stochastic Modeling	IEEE Transactions on Wireless Communications, Vol. 8, No. 8, pp. 4165-4175, August 2009.	Radio/PHY
Kleisouris, K.	Chen, Y., Yang, J. and Martin, R.	Journal Paper	Empirical Evaluation of Wireless Localization When Using Multiple Antennas	IEEE Transactions on Parallel and Distributed Systems, Vol. 21, No. 11, pp. 1595-1610, November 2010.	Radio/PHY
Kokalj-Filipovic, S.	Soljanin, E. and Spasojevic, P.	Conference Paper	Is a Rateless Paradigm Fitted for Lossless Compression of Erasure-Impaired Sources	Proceedings of the 49 th Annual Allerton Conference on Communication, Control and Computing, Urbana, IL, September 2011, pp. 18-25.	Radio/PHY
Kremo, H.	Seskar, I. and Spasojevic, P.	Conference Paper	On Spatial and Temporal Coherence of a Class of Wireless Vehicular Short Range Channels	Proceedings of the Virginia Tech 2010 Wireless Symposium and Summer School, Blacksburg, VA, June 2010.	Radio/PHY
Kremo, H.	Seskar, I. and Spasojevic, P.	Conference Paper	Experimental Modeling of the Effect of Adjacent Lane Traffic on the Vehicular Channel	Proceedings of the 1 st IEEE Vehicular Networking Conference (VNC 2009), Tokyo, Japan, October 2009, pp. 1-8.	Radio/PHY
Lei, J.	Yates, R.	Conference Paper	Reverse Stripping Soft Decision Decoding for Gaussian Fading Broadcast Channels	Proceedings of the 6 th International Symposium on Turbo Codes and Iterative Information Processing (ISTC 2010), Brest, France, September 2010, pp. 482-486.	Radio/PHY
Lei, J.	Greenstein, L. and Yates, R.D.	Journal Paper	Link Gain Matrix Estimation in Distributed Large-Scale Wireless Networks	EURASIP Journal on Wireless Communications and Networking, Volume 2010, Article ID 651795, 9 pages, 2010.	Radio/PHY
Lei, J.	Gao, W., Spasojevic, P. and Yates, R.D.	Conference Paper	Demultiplexer Design for Multi-Edge Type LDPC Coded Modulation	Proceedings of the IEEE International Symposium on Information Theory, Seoul, Korea, June 2009, pp. 933-937.	Radio/PHY
Lei, J.	Gao, W.	Conference Paper	A Code-Matched Interleaver Design over Surrogate Channels	Proceedings of the IEEE Wireless Communication and Networking Conference (WCNC 2009), Budapest, Hungary, April 2009, pp. 1-6.	Radio/PHY
Lei, J.	Yates, R., Spasojevic, P. and Greenstein, L.	Conference Paper	Cooperative Sensing of Primary Users in Cognitive Radio Networks Based on Message Passing	Proceedings of the 43 rd Annual Conference on Information Sciences and Systems (CISS 2009), Baltimore, MD, March 2009, pp. 568-573.	Radio/PHY

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Lei, J.	Yates, R.D. and Greenstein, L.J.	Journal Paper	A Generic Model for Optimizing Single-Hop Transmission Policy of Replenishable Wireless Sensors	IEEE Transactions on Wireless Communications, Vol. 8, No. 2, pp. 547-551, February 2009.	Radio/PHY
Lei, J.	Yates, R., Greenstein, L.J. and Liu, H.	Journal Paper	Mapping Link SNRs of Real-World Wireless Networks onto an Indoor Testbed	IEEE Transactions of Wireless Communications, Vol. 8, No. 1, pp. 157-165, January 2009.	Radio/PHY
Li, J.	Petropulu, A.	Journal Paper	Explicit Solution of Worst-Case Secrecy Rate for MISO Wiretap Channels with Spherical Uncertainty	IEEE Transactions on Signal Processing, Vol. 60, No. 7, pp. 3892-3895, July 2012. DOI: 10.1109/TSP.2012.2192111.	Radio/PHY
Li, J.	Petropulu, A.	Conference Paper	On Beamforming Solution for Secrecy Capacity of MIMO Wiretap Channels	Proceedings of the IEEE GLOBECOM Workshops (GC Workshops), Houston, TX, December 2011, pp. 889-892. DOI: 10.1109/GLOCOMW.2011.6162584.	Radio/PHY
Li, J.	Petropulu, A.	Conference Paper	On Transmit Beamforming for Physical-Layer Multicasting	Proceedings of the IEEE Global Communications Conference (GLOBECOM 2011), Houston, TX, December 2011, pp. 1-5. DOI: 10.1109/GLOCOM.2011.6134125.	Radio/PHY
Li, J.	Petropulu, A.	Conference Paper	Explicit Solution of Worst-Case Secrecy Rate for MISO Wiretap Channels with Spherical Uncertainty	Proceedings of the 45 th Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA, November 2011, pp. 198-201.	Radio/PHY
Li, J.	Petropulu, A.	Journal Paper	On Ergodic Secrecy Capacity for Gaussian MISO Wiretap Channels	IEEE Transactions on Wireless Communications, Vol. 10, No. 4, pp. 1176-1187, April 2011.	Radio/PHY
Li, J.	Petropulu, A. and Weber, S.	Journal Paper	On Optimal Cooperative Relaying Schemes for Improving Wireless Physical Layer Security	IEEE Transactions on Signal Processing, Vol. 59, No. 10, pp. 4985-4997, October 2011.	Radio/PHY
Li, J.	Petropulu, A. and Poor, H.V.	Journal Paper	On Cooperative Beamforming Based on Second-Order Statistics of Channel State Information	IEEE Transactions on Signal Processing, Vol. 59, No. 3, pp. 1280-1291, March 2011.	Radio/PHY
Li, J.	Petropulu, A.	Conference Paper	Ergodic Secrecy Rate for Gaussian MISO Wiretap Channels with Non-Trivial Covariance	Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM 2010), Miami, FL, December 2010, pp. 1-5.	Radio/PHY
Li, Y.	Soljanin, E. and Spasojevic, P.	Journal Paper	Three Schemes for Coded Broadcast in a Wireless Network of Heterogeneous Users	To appear in Elsevier Physical Communications: Special Issue on Network Coding, 2012.	Radio/PHY
Li, Y.	Soljanin, E. and Spasojevic, P.	Journal Paper	Effects of Generation Size and Overlap on Throughput and Complexity in Randomized Linear Network Coding	IEEE Transactions on Information Theory, Vol. 57, No. 2, pp. 1111-1123, February 2011.	Radio/PHY
Li, Y.	Soljanin, E. and Spasojevic, P.	Conference Paper	Collecting Coded Coupons Over Generations	Proceedings of the IEEE International Symposium on Information Theory (ISIT 2010), Austin, TX, June 2010, pp. 2448-2452.	Radio/PHY
Li, Y.	Soljanin, E. and Spasojevic, P.	Conference Paper	Collecting Coded Coupons Over Overlapping Generations	Proceedings of the IEEE International Symposium on Network Coding (NetCod 2010), Toronto, CA, June 2010, pp. 1-6.	Radio/PHY
Li, Y.	Soljanin, E.	Conference Paper	Rateless Codes for Single-Server Streaming to Diverse Users	Proceedings of the 47 th Annual Allerton Conference on Communication, Control and Computing, Monticello, IL, September/October 2009, pp. 1419-1426.	Radio/PHY

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Li, Z.	Yates, R. and Trappe, W.	Journal Paper	Achieving Secret Communication for Fast Relaying Fading Channels	IEEE Transactions on Wireless Communications, Vol. 9, No. 9, pp. 2792-2799, September 2010.	Radio/PHY
Liu, H.	Razoumov, L., Mandayam, N. and Spasojevic, P.	Journal Paper	An Optimal Power Allocation Scheme for the STC Hybrid-ARQ over Energy Limited Networks	IEEE Transactions on Wireless Communications, Vol. 8, No. 12, pp. 5718-5722, December 2009.	Radio/PHY
Liu, S.	Greenstein, L.J., Trappe, W. and Chen, Y.	Journal Paper	Detecting Anomalous Spectrum Usage in Dynamic Spectrum Access Networks	Elsevier Ad Hoc Networks, Special Issue on Cognitive Radio and Ad Hoc Networks, Vol. 10, No. 5, pp. 831-844, July 2012.	Radio/PHY
Liu, S.	Greenstein, L.J.	Journal Paper	Interference Evaluation of Overhead Medium-Voltage Broadband Power Line (BPL) Systems	IEEE Transactions on Electromagnetic Compatibility, Vol. 52, No. 4, pp. 866-877, November 2010.	Radio/PHY
Liu, S.	Chen, Y., Trappe, W. and Greenstein, L.J.	Conference Paper	ALDO: An Anomaly Detection Framework for Dynamic Spectrum Access Networks	Proceedings of the IEEE 28 th Conference on Computer Communications (INFOCOM 2009), Rio de Janeiro, Brazil, April 2009, pp. 675-683.	Radio/PHY
Liu, S.	Chen, Y., Trappe, W. and Greenstein, L.J.	Conference Paper	Non-Interactive Localization of Cognitive Radios Based on Dynamic Signal Strength Mapping	Proceedings of the Sixth International Conference on Wireless On-Demand Network Systems and Services, Snowbird, UT, February 2009, pp. 85-92. ***Best Paper Award***	Radio/PHY
Liu, X.	Petropulu, A. and Sarkar, S.	Conference Paper	Delay Minimization for Random Scheduling in Centralized Wireless Networks	Proceedings of the 46 th Annual IEEE Conference on Information Sciences and Systems (CISS 2012), Princeton, NJ, March 2012, pp. 1-6.	Radio/PHY
Liu, X.	Petropulu, A., Poor, H.V. and Koivunen	Journal Paper	Blind Separation of Multiple Users Based on Carrier Frequency Offset and Delay Diversity	EURASIP Journal on Wireless Communications and Networking, Vol. 2010, Article ID 939340, 12 Pages.	Radio/PHY
Liu, Y.	Petropulu, A.	Conference Paper	Antenna Selection in Relay Networks with Multiple Source-Destination Pairs in the Presence of Imperfect CSI	Proceedings of the 46 th Annual IEEE Conference on Information Sciences and Systems (CISS 2012), Princeton, NJ, March 2012, pp. 1-5.	Radio/PHY
Liu, Y.	Petropulu, A.	Conference Paper	Relay Selection and Scaling Law in Destination Assisted Physical Layer Secrecy Systems	Proceedings of the IEEE Statistical Signal Processing Workshop, Ann Arbor, MI, August 2012, pp. 381-384.	Radio/PHY
Liu, Y.	Petropulu, A. and Poor, H.V.	Conference Paper	Joint Decode-and-Forward and Jamming for Wireless Physical Layer Security with Destination Assistance	Proceedings of the 45 th Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA, November 2011, pp. 109-113.	Radio/PHY
Loiacono, M.	Johnson, J., Rosca, J. and Trappe, W.	Conference Paper	Cross-Layer Link Adaptation for Wireless Video	Proceedings of the 2010 IEEE International Conference on Communications (ICC), Cape Town, South Africa, May 2010, pp. 1-6.	Radio/PHY
Luo, S.	Li, J. and Petropulu, A.	Conference Paper	Outage Constrained Secrecy Rate Maximization Using Cooperative Jamming	Proceedings of the IEEE Statistical Signal Processing Workshop, Ann Arbor, MI, August 2012, pp. 389-392.	Radio/PHY
Luo, S.	Lu, J. and Petropulu, A.	Conference Paper	Physical Layer Security with Uncoordinated Helpers Implementing Cooperative Jamming	Proceedings of the IEEE 7 th Sensor Array and Multichannel Signal Processing Workshop (SAM 2012), Hoboken, NJ, June 2012, pp. 97-100.	Radio/PHY

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Mandayam, N.		Panel Leader	Communicating in TV White Space	2010 IEEE Communication Theory Workshop, Cancun, Mexico, May 2010.	Radio/PHY
Marcus, J.	Budisin, S. and Spasojevic, P.	Conference Paper	On the Size of Binary MWBE Sequence Sets	Proceedings of the 9 th International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt) Princeton, NJ, May 2011, pg. 374.	Radio/PHY
Mathur, S.	Miller, R., Varshavsky, A., Trappe, W. and Mandayam, N.	Conference Paper	ProxiMate: Proximity-Based Secure Pairing Using Ambient Wireless Signals	Proceedings of the 9 th International Conference on Mobile Systems, Applications, and Services, Washington, DC, July 2011, pp. 211-224.	Radio/PHY
Mathur, S.	Reznik, A., Ye, C., Mukherjee, R., Rahman, A., Shah, Y., Trappe, W. and Mandayam, N.	Journal Paper	Exploiting the Physical Layer for Enhanced Security	IEEE Wireless Communications Magazine, Special Issue on Security and Privacy, Vol. 17, No. 5, pp. 63-70, October 2010.	Radio/PHY
Mian, S.	Rose, C.	Journal Paper	Communication Theory and Multicellular Biology	Integrative Biology, DOI:10.1039/C0IB00117A v.3(4), pp. 350-367, April 2011.	
Michaelson, D.G.	Erceg, V., Ghassemzadeh, S.S. and Greenstein, L.J.	Journal Paper	An Empirical Model for Dual-Diversity Reception over Fixed Wireless Channels in Suburban Macrocell Environments	IEEE Transactions on Wireless Communications, Vol. 8, No. 8, pp. 4220-4229, August 2009.	Radio/PHY
Miller, R.	Trappe, W.	Journal Paper	On the Vulnerabilities of CSI in MIMO Wireless Communication Systems	IEEE Transactions on Mobile Computing, Vol. 11, No. 8, pp. 1386-1398, August 2012.	Radio/PHY
Miller, R.	Trappe, W.	Conference Paper	Subverting MIMO Wireless Systems by Jamming the Channel Estimation Procedure	Proceedings of the 3 rd ACM Conference on Wireless Network Security (WiSec 2010), Hoboken, NJ, March 2010, pp. 19-24.	Radio/PHY
Miller, R.	Trappe, W.	Conference Paper	Physical Layer Techniques for Enhanced Situational Awareness	Proceedings of 2010 IEEE International Conference on Acoustics Speech and Signal Processing (ICASSP), Dallas, TX, March 2010, pp. 2234-2237.	Radio/PHY
Namboodiri, V.	Liu, H. and Spasojevic, P.	Conference Paper	Successive Interference Cancellation Based Turbo Equalization for MIMO OFDM Systems	Proceedings of the 45 th Annual Conference on Information Sciences and Systems, Princeton, NJ, March 2011, pp. 1-6.	Radio/PHY
Namboodiri, V.	Liu, H. and Spasojevic, P.	Conference Paper	Low Complexity Turbo Equalization for Mobile MIMO OFDM Systems	Proceedings of 5 th International Symposium on Communications, Control and Signal Processing (ICCSP 2011), Calicut, Kerala, India, February 2011, pp. 255-260.	Radio/PHY
Namboodiri, V.	Liu, H. and Spasojevic, P.	Conference Paper	Low Complexity Turbo Equalization for Mobile OFDM Systems with Application to DVB-H	Proceedings of the IEEE Global Communications Conference (GLOBECOM), Miami, FL, December 2010, pp. 1328-1333.	Radio/PHY
Park, H-S.	Sugrim, S., Spasojevic, P. and Park, Y-K.	Conference Paper	Noise Power and SNR Estimation Based on the Preamble in Tri-Sector OFDM Systems	Proceedings of the IEEE 73 rd Vehicular Technology Conference - VTC Spring, Budapest, Hungary, May 2011, pp. 1-5.	Radio/PHY
Petropulu, A.	Yu, Y. and Huang, J.	Conference Paper	On Exploring a Sparsity in Widely Separated MIMO Radar	Proceedings of the 45 th Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA, November 2011, pp. 1496-1500.	Radio/PHY
Pupula, R.N.	Daut, D.G. and Greenstein, L.J.	Journal Paper	System-Level Impact of Multi-User Diversity in SISO and MIMO-Based Cellular Systems	Journal of Communications: Special Issue on Practical Physical Layer Techniques for 4G and Beyond, Vol. 6, No. 4, pp. 274-284, July 2011.	Radio/PHY

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Pupula, R.N.	Yuan, Y., Bi, Q., and Greenstein, L.J.	Journal Paper	Downlink System Throughput Statistics for Various MEA Configurations	Journal of Communications: Special Issue on Practical Physical Layer Techniques for 4G and Beyond, Vol. 6, No. 4, pp. 284-292 July 2011.	Radio/PHY
Pupala, R.N.	Greenstein, L.J. and Daut, D.G.	Journal Paper	Throughput Analysis of Interference-Limited MIMO-Based Cellular Systems	IEEE Transactions on Wireless Communications, Vol. 9, No. 6, pp. 1946-1951, June 2010.	Radio/PHY
Pupala, R.N.	Greenstein, L.J. and Daut, D.	Journal Paper	Downlink Throughput Statistics in Interference-Limited Cellular Systems with Multi-Element Antennas	IEEE Transactions on Communications, Vol. 58, No. 1, pp. 311-317, January 2010.	Radio/PHY
Pupala, R.N.	Greenstein, L. and Daut, D.	Journal Paper	Effects of Channel Dispersion and Path Correlations on System-Wide Throughput in MIMO-based Cellular Systems	IEEE Transactions on Wireless Communications, Vol. 8, No. 11, pp. 5477-5482, November 2009.	Radio/PHY
Raina, M.	Spasojevic, P.	Conference Paper	Decoding Complexity of Irregular LDGM-LDPC Codes over the BISOM Channels	Proceedings of the 44 th Annual Conference on Information Sciences and Systems (CISS 2010), Princeton, NJ, March 2010, pp. 1-6.	Radio/PHY
Raina, M.	Liu, R., Spasojevic, P. and Poor, H.V.	Conference Paper	Application of LDGM-LDPC Codes to Secrecy Coding for the Type-II Binary Symmetric Wiretap Channel	Proceedings of the 2010 IEEE Information Theory Workshop, Cairo, Egypt, January 2010, pp. 1-5.	Radio/PHY
Rong, Y.	Tang, X. and Hua, Y.	Journal Paper	A Unified Framework for Optimizing Linear Non-Regenerative Multicarrier MIMO Relay Communication Systems	IEEE Transactions on Signal Processing, Vol. 57, No. 12, pp. 4837-4852, December 2009.	Radio/PHY
Rose, C.		Invited Talk	Communication Using Identical Tokens	Information Theory and Applications Workshop, University of California at San Diego, February 2012.	Radio/PHY
Sankar, L.	Mandayam, N.B. and Poor, H.V.	Journal Paper	On the Sum-Capacity of Degraded Gaussian Multiple-Access Relay Channels	IEEE Transactions on Information Theory, Vol. 55, No. 12, pp. 5394-5411, December 2009.	Radio/PHY
Sequeira, S.	Pinagapany, S., Futatsugi, Y., Ariyoshi, M. and Spasojevic, P.	Conference Paper	A Demonstration of Adaptive Spectrum Sensing and Interference Suppressed Opportunistic Secondary Transmission	Proceedings of the 6 th International ICST Conference on Cognitive Radio Oriented Wireless Networks and Communications (CROWNCOM) Demonstration Track, Osaka, Japan, June 2011.	Radio/PHY
Somani, N.	Chanda, A., Nelson, S.C. and Raychaudhuri, D.	Conference Paper	Storage-Aware Routing for Robust and Efficient Services in the Future Mobile Internet	Proceedings of the 5 th International Workshop on the Network of the Future, held in conjunction with IEEE ICC, Ottawa, Canada, June 2012.	Radio/PHY
Song, R.	Tsai, Y-L., Rose, C. and Mian, I.S.	Conference Paper	Wireless: Signaling with Identical Quanta	Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2012), Paris, France, April 2012, pp. 699-703.	Radio/PHY
Sun, X.	Wang, Q., Cimini, L.J., Greenstein, L.J. and Chan, D.S.	Journal Paper	ICI/ISI-Aware Beamforming for MIMO-OFDM Wireless Systems	IEEE Transactions on Wireless Communications, Vol. 11, No. 1, pp. 378-385, January 2012.	Radio/PHY
Sun, X.	Cimini, L.J., Greenstein, L.J., Chan, D. and Wang, G.	Journal Paper	ICI/ISI Aware Beamforming for MIMO-OFDM Wireless Systems	To appear in Transactions on Wireless Communications.	Radio/PHY
Sun, X.	Cimini, L.J., Greenstein, L.J., Chan, D.S. and Kruys, J.	Conference Paper	Coordinated Zero-Forcing Beamforming in Multipoint MIMO Networks for Backhaul Applications	Proceedings of the 2009 Military Communications Conference (MILCOM 2009), Boston MA, October 2009, pp. 1-7.	Radio/PHY

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Sun, X.	Cimini, L.J., Greenstein, L.J. and Chan, D.S.	Conference Paper	ICI/ISI Aware Beamforming for MIMO-OFDM Wireless Systems	Proceedings of the Conference on Information Sciences and Systems (CISS '09), Baltimore, MD, March 2009, pp. 103-107.	Radio/PHY
Tang, X.	Liu, R., Spasojevic, P. and Poor, H.V.	Conference Paper	Secret-Key Generation Over Wireless Fading Channel	Proceedings of the 2010 Information Theory and Application Workshop, UCSD, La Jolla, CA, Jan/Feb 2010.	Radio/PHY
Tang, X.	Liu, R., Spasojevic, P. and Poor, H.V.	Conference Paper	Secret-Key Sharing Based on Layered Broadcast Coding over Fading Channels	Proceedings of the IEEE International Symposium on Information Theory (ISIT 2009), Seoul Korea, June/July 2009, pp. 2762-2766.	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	IEEE Transactions on Information Theory, Vol. 55, No. 4, pp. 1575-1591, April 2009.	Radio/PHY
Tavan, M.	Agrell, E. and Karout, J.	Journal Paper	Bandlimited Intensity Modulation	To appear in IEEE Transactions on Communications, 2012.	Radio/PHY
Tavan, M.	Agrell, E. and Karout, J.	Conference Paper	Strictly Bandlimited ISI-Free Transmission Over Intensity-Modulated Channels	Proceedings of the IEEE Global Communications Conference (GLOBECOM 2011), Houston, TX, December 2011, pp. 1-6.	Radio/PHY
Tsai, Y-L.	Rose, C. and Song, R.	Conference Paper	An Additive Exponential Noise Channel with a Transmission Deadline	Proceedings of the IEEE International Symposium on Information Theory (ISIT 2011), St. Petersburg, Russia, July/August 2011, pp. 718-722.	Radio/PHY
Tsai, Y-L.	Rose, C.	Conference Paper	MIMO Power Strategies for Limited Transmitter CSI	Proceedings of the 44 th Annual Conference on Information Sciences and Systems (CISS 2010), Princeton, NJ, March 2010, pp. 1-4.	Radio/PHY
Tse, D.	Yates, R.D.	Journal Paper	Fading Broadcast Channels With State Information at the Receivers	IEEE Transactions on Information Theory, Vol. 58, No. 6, pp. 3453-3471, June 2012.	Radio/PHY
Turgut, B.	Martin, R.	Conference Paper	Using a-Priori Information to Improve the Accuracy of Indoor Dynamic Localization	Proceedings of the 12 th ACM International Conference on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM), October 2009, pp. 396-404.	Radio/PHY
Varga, M.	Ashok, A., Gruteser, M., Mandayam, N., Yuan, W. and Dana, K.	Conference Demo	Visual MIMO-based LED-Camera Communication Applied to Automobile Safety	Proceedings of the 9 th International Conference on Mobile Systems, Applications and Services (ACM MobiSys '11), Washington, DC, June/July 2011, pp. 383-384.	Radio/PHY
Tang, X.	Liu, R., Spasojevic, P. and Poor, H.V.	Journal Paper	Interference Assisted Secret Communication	IEEE Transactions on Information Theory, Vol. 57, No. 5, pp. 3153-3167, May 2011.	Radio/PHY
Wang, Q.	Cimini, L.J., Greenstein, L.J. and Chan, D.S.	Conference Paper	Single-User and Multi-User Mode Selection for MIMO Broadcast Channels with Imperfect Channel State Information	Proceedings of the 46 th Annual Conference on Information Sciences and Systems (CISS 2012), Princeton, NJ, March 2012, pp. 1-6.	Radio/PHY
Wani, M.	Miljanic, Z., Spasojevic, P. and Redington, J.	Conference Paper	ASIP Data Plane Processor for Multi-Standard Interleaving and De-Interleaving	Proceedings of the 44 th Annual Asilomar Conference on Signals Systems and Computers, Pacific Grove, CA, November 2010, pp. 1259-1263.	Radio/PHY
Wolniansky, P.	Seskar, I.	Conference Paper	Aggressive Cognitive Radio (ACR): How To Make Your Own White Space	Proceedings of the 10 th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc '09), New Orleans, LA, May 2009, pp. 319-320.	Radio/PHY

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Xiao, L.	Reznik, A., Trappe, W., Ye, C., Shah, Y., Greenstein, L.J. and Mandayam, N.	Conference Paper	PHY-Authentication Protocol for Spoofing Detection in Wireless Networks	Proceedings of the IEEE Global Communications Conference (GLOBECOM 2010), Miami, FL, December, 2010, pp. 1-6.	Radio/PHY
Xiao, L.	Greenstein, L.J., Mandayam, N. and Trappe, W.	Journal Paper	Channel-based Spoofing Detection in Frequency-Selective Rayleigh Channels	IEEE Transactions on Wireless Communications, Vol. 8, No. 12, pp. 5948-5956, December 2009.	Radio/PHY
Xiao, L.	Greenstein, L.J., Mandayam, N. and Trappe, W.	Journal Paper	Channel-based Detection of Sybil Attacks in Wireless Networks	IEEE Transactions on Information Forensics and Security, Vol. 4, No. 3, pp. 492-503, September 2009.	Radio/PHY
Yang, J.	Varshavsky, A., Liu, H., Chen, Y. and Gruteser, M.	Conference Paper	Accuracy Characterization of Cell Tower Localization	Proceedings of the 12 th ACM International Conference on Ubiquitous Computing (UBICOMP 2010), Copenhagen, Denmark, September 2010, pp. 223-226.	Radio/PHY
Yang, X.	Petropulu, A.	Book Chapter	Modeling of Co-Channel Interference in Wireless Communications	Chapter in "Classical, Semi-Classical and Quantum Noise" (in honor of the contributions of David Middleton), Springer, 2012.	Radio/PHY
Yates, R.D.	Lei, J.	Conference Paper	Gaussian Fading Broadcast Channels with CSI Only at the Receivers: An Improved Constant Gap	Proceedings of the 2011 IEEE International Symposium on Information Theory (ISIT 2011), St. Petersburg, Russia, August 2011, pp. 2969-2973.	Radio/PHY
Yates, R.D.	Tse, D.	Conference Paper	K-user Fading Broadcast Channels with CSI at the Receivers	Proceedings of the Information Theory and Applications Workshop (ITA 2011), San Diego, CA, February 2011, pp. 1-6.	Radio/PHY
Yu, Y.	Petropulu, A.	Invited Talk	A Study on Power Allocation with Uncoordinated Helpers Implementing Cooperative Jamming	Proceedings of the Defense, Security and Sensing Conference (SPIE), Baltimore, MD, April 2012.	Radio/PHY
Yu, Y.	Petropulu, A. and Poor, H.V.	Journal Paper	CSSF MIMO RADAR: Compressive-Sensing and Step-Frequency Based MIMO Radar	IEEE Transactions on Aerospace and Electronic Systems, Vol. 48, No. 2, pp. 1490-1504, April 2012. Also available at http://arxiv.org/PS_cache/arxiv/pdf/1101/1101.2719v1.pdf	Radio/PHY
Yu, Y.	Petropulu, A. and Poor, H.V.	Journal Paper	Measurement Matrix Design for Compressive Sensing-Based MIMO Radar	IEEE Transactions on Signal Processing, Vol. 59, No. 11, pp. 5338-5352, November 2011. Also available at http://arxiv.org/PS_cache/arxiv/pdf/1102/1102.5079v1.pdf	Radio/PHY
Yu, Y.	Petropulu, A. and Poor, H.V.	Journal Paper	MIMO Radar Using Compressive Sampling	IEEE Journal on Selected Topics in Signal Processing, Vol. 4, No. 1, pp. 146-163, February 2010.	Radio/PHY
Yu, Y.	Yatawatta, S. and Petropulu, A.P.	Journal Paper	A Precoded OFDMA System with User Cooperation	EURASIP Journal on Wireless Communications and Networking, Vol. 2010, Article ID 843745, 12 Pages.	Radio/PHY
Yuan, W.	Dana, K., Ashok, A., Gruteser, M. and Mandayam, N.	Conference Paper	Dynamic and Invisible Messaging for Visual MIMO	Proceedings of the IEEE Workshop on Applications of Computer Vision (WACV 2012), January 2012, pp. 345-352.	Radio/PHY
Yuan, W.	Dana, K., Varga, M., Ashok, A., Gruteser, M. and Mandayam, N.	Conference Paper	Computer Vision Methods for Visual MIMO Optical System	Proceedings of the IEEE International Workshop on Projector-Camera Systems, held in conjunction with the IEEE CVPR, Colorado Springs, CO, June 2011.	Radio/PHY
Zan, B.	Gruteser, M. and Hu, F.	Conference Paper	Improving Robustness of Key Extraction from Wireless Channels with Differential Techniques	To appear in the Proceedings of the International Conference on Computing, Networking and Communications (ICNC 2012), Maui, HI, Jan/Feb 2012, pp. 980-984.	Radio/PHY

List of WINLAB Publications and Talks for Radio/PHY (...continued)

(2009 to Fall 2012)

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Zhang, D.	Mandayam, N.	Journal Paper	Analyzing Random Network Coding with Differential Equations and Differential Inclusions	IEEE Transactions on Information Theory, Vol. 57, No. 12, pp. 7932-7949, December 2012.	Radio/PHY
Zhang, D.	Dong, L. and Mandayam, N.	Conference Paper	Sensing Wireless Microphone with ESPRIT from Noise and Adjacent Channel Interference	Proceedings of the 2010 Global Telecommunications Conference (GLOBECOM 2010), Miami, FL, December 2010, pp. 1-5.	Radio/PHY