

**List of WINLAB Publications and Talks on Radio Technology/SOC
(2002 to Spring 2005)
(Listed in alphabetical order by principal author)**

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Awoniyi, O.	Mehta, N.B. and Greenstein, L.J.	Journal Paper	Characterizing The Orthogonality Factor In WCDMA Downlinks	IEEE Transactions On Wireless Communications Vol. 2, No. 4, pp. 621-625, July 2003.	Radio Technology/SOC
Bellorado, J.	Ghassemzadeh, S.S., Greenstein, L.J., Sveinsson, T. and Tarokh, V.	Conference Paper	Coexistence of Ultra-Wideband Systems with IEEE-802.11a Wireless LANs	Proceedings of IEEE Global Telecommunications Conference (GLOBECOM '03), San Francisco, CA, December 2003, pp. 410-414.	Radio Technology/SOC
Catreux, S.	Greenstein, L.J. and Erceg, V.	Journal Paper	Some Results and Insights on the Performance Gains of MIMO Systems	IEEE Journal of Selected Areas in Communications Vol. 21, No. 5, pp. 839-847, June 2003.	Radio Technology/SOC
Catreux, S.	Driessen, P.F. and Greenstein, L.J.	Journal Paper	Data Throughputs Using Multiple-Input Multiple-Output (MIMO) Techniques In A Noise-Limited Cellular Environment	IEEE Transactions on Wireless Communications Vol. 1, No. 2, pp. 226-235, April 2002.	Radio Technology/SOC
Chen, H.	Zhong, J., Saraf, G. Zhang, Z., Lu, Y., Fetter, L.A., and Pai, C-S.	Conference Paper	Properties of ZnO Nanotips Selectively Grown by MOCVD	Proceedings of SPIE International Symposium on Information Technologies and Communications ITCOM 2004, Vol. 5592, pp. 164-169, Philadelphia, PA, October 2004.	Radio Technology/SOC
Chen, Y.	Saraf, G., Wittstruck, R.H., Emanetoglu, N.W., and Lu, Y.	Conference Paper	ZnO and Mg _x Zn _{1-x} O Thin Film Resonators for Mass Sensing	To appear in the 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 Technology/SOC
Chen, Y.	Emanetoglu, N.W., Saraf, G., Wu, P., and Lu, Y.	Journal Paper	Analysis of SAW Properties in ZnO/A _{1-x} Ga _{1-x} N/c-A _{1-x} O ₃ Structures	To appear in the IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control.	Radio Technology/SOC
Chen, Y.	Emanetoglu, N.W., Chen, Y., Lu, Y., Parekh, A., Merai, V., Prohristic, M., Lu, D., Lee, D.S., Armour, A.	Conference Paper	Surface Acoustic Waves in ZnO/A _{1-x} Ga _{1-x} N/c – Sapphire Structures	Proceedings of 2003 IEEE International Ultrasonics Symposium, Honolulu, HI, October 2003, pp. 2130-2133.	Radio Technology/SOC
Cimini, L.J.,	Greenstein, L.J.	Book Chapter	Orthogonal Frequency Division Multiplexing	The Wiley Encyclopedia of Telecommunications, John Wiley, 2002.	Radio Technology/SOC
Clark, M.V.	Greenstein, L.J.	Journal Paper	The Relationship between Fading and Bandwidth for Multipath Channels	To appear in IEEE Transactions on Wireless Communications.	Radio Technology/SOC
Domazetovic, A.	Greenstein, L.J., Mandayam, N.B., and Seskar, I.	Journal Paper	Propagation Models for Short-Range Wireless Channels with Predictable Path Geometries	To appear in IEEE Transactions on Communications.	Radio Technology/SOC
Domazetovic, A.	Greenstein, L.J., Mandayam, N.B., and Seskar, I.	Journal Paper	Estimating the Doppler Spectrum of a Short-Range Fixed Wireless Channel	IEEE Communications Letters Vol. 7, No. 5, pp. 227-229, May 2003.	Radio Technology/SOC

**List of WINLAB Publications and Talks on Radio Technology/SOC (...continued)
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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Domazetovic , A.	Greenstein, L.J., Mandayam, N.B., and Seskar, I.	Conference Paper	A New Modeling Approach for Wireless Channels With Predictable Path Geometries	Proceedings of IEEE Vehicular Technology Conference (VTC '02 Fall), Vancouver, Canada, September 2002, pp. 454-458.	Radio Technology/SOC
Emanetoglu, N.W.	Zhu, J., Chen, Y., Zhong, J., Chen, Y. and Lu, Y.	Journal Paper	Surface Acoustic Wave Ultraviolet Photodetectors Using Epitaxial ZnO Multilayers Grown on R-Plane Sapphire	Applied Physical Letters, No. 85, 3702, 2004	Radio Technology/SOC
Emanetoglu, N.W.	Muthukumar, S., Wu, P, Wittstruck, R., Chen, Y. and Lu, Y.	Journal Paper	MgxZn1-xO: A New Piezoelectric Material	IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control, Vol. 50, No. 5, pp. 537-543, May 2003.	Radio Technology/SOC
Feng, S.	Hu, J., Lu, Y., Wynn, J. and Ghosh, C.	Journal Paper	Comparative Studies of P-Type InP Layers Formed by Zn3As2 and Zn3P2 Diffusions	TMS & IEEE Journal of Electronic Materials, Vol. 32, No. 9, pp. 932-934, September 2003.	Radio Technology/SOC
Ghassemzadeh, S.S.	Greenstein, L.J., Sveinsson, T., Kavcic, V. and Tarokh, V.	Journal Paper	UWB Delay Profile Models for Residential and Commercial Environments	To appear in the IEEE Transactions on Vehicular Technology.	Radio Technology/SOC
Ghassemzadeh, S.S.	Greenstein, L.J., Sveinsson, T. and Tarokh, V.	Conference Paper	An Impulse Response Model for Residential Wireless Channels	Proceedings of IEEE Global Telecommunications Conference (GLOBECOM '03), San Francisco, CA, December 2003, pp. 1211-1215.	Radio Technology/SOC
Ghassemzadeh, S.S.	Greenstein, L.J., Kavcic, A., Sveinsson, T. and Tarokh, V.	Conference Paper	UWB Indoor Path Loss Model for Residential and Commercial Buildings	Proceedings of IEEE Vehicular Technology Conference (VTC '03 Fall), Orlando, FL, October 2003, pp. 3115-3119.	Radio Technology/SOC
Ghassemzadeh, S.S.	Greenstein, L.J., Kavcic, A., Sveinsson, T. and Tarokh, V.	Conference Paper	UWB Indoor Delay Profile Model for Residential and Commercial Environments	Proceedings of IEEE Vehicular Technology Conference (VTC '03 Fall), Orlando, FL, October 2003, pp. 3120-3125.	Radio Technology/SOC
Gopalakrishnan, P.	Spasojevic, P., Greenstein and Seskar, I.	Conference Paper	A Method for Predicting the Throughput Characteristics of Rate-Adaptive Wireless LANs	Proceedings of the IEEE Vehicular Technology Conference (VTC '04-Fall), Los Angeles, CA, September 2004, pp. 4528-4532.	Radio Technology/SOC
Greenstein, L.J.	Ghassemzadeh, S.S., Hong, S.C. and Tarokh, V.	Journal Paper	Comparison Study of UWB Indoor Channel Models	To appear in IEEE Transactions on Wireless Communications.	Radio Technology/SOC
Greenstein, L.J.	Andersen, J.B., Bertoni, H., Kozono, S. and Michelson, D.G.	Journal Paper	Channel And Propagation Models For Wireless System Design (Guest Editorial)	IEEE Journal on Selected Areas in Communication Vol. 20, no. 3, pp. 493-495; April 2002.	Radio Technology/SOC
Greenstein, L.J.		Conference Paper	Channel Modeling For Various Wireless Environments	Proceedings of Sarnoff Symposium, Princeton, NJ, March 2002, pp. 448-451.	Radio Technology/SOC
Kishore, S.	Greenstein, L.J., Schwartz, S.C. and Poor, H.V.	Journal Paper	Uplink User Capacity in a CDMA Macrocell with Hotspot Microcells: Effects of Finite Transmit Power and Dispersion	To appear in IEEE Transactions on Wireless Communications	Radio Technology/SOC
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	To appear in IEEE Transactions on Wireless Communications.	Radio Technology/SOC

**List of WINLAB Publications and Talks on Radio Technology/SOC (...continued)
(2002 to Spring 2005)**

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Kishore, S.	Schwartz, S., Greenstein, L.J. and Poor, H.V.	Journal Paper	Uplink Throughput in a Single-Macrocell/Single-Microcell CDMA System, with Application to Data Access Points	To appear in IEEE Transactions on Wireless Communications.	Radio Technology/SOC
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	To appear in IEEE Transactions on Wireless Communications.	Radio Technology/SOC
Kishore, S.	Greenstein, L.J., Poor, H.V. and Schwartz, S.C.	Conference Paper	Soft Handoff and Uplink Capacity in a Two-Tier CDMA System	Proceedings of IEEE International Conference on Communications (ICC 2004), Paris, France, June 2004, pp. 395-399.	Radio Technology/SOC
Kishore, S.	Greenstein, L.J., Poor, H.V. and Schwartz, S.C.	Conference Paper	Downlink User Capacity in a CDMA Macrocell with a Hotspot Microcell	Proceedings of IEEE Global Telecommunications Conference (GLOBECOM '03), San Francisco, CA, December 2003, pp. 1573-1577.	Radio Technology/SOC
Kishore, S.	Greenstein, L.J., Schwartz, S.C. and Poor, H.V.	Conference Paper	User Capacity in a CDMA Macrocell with a Hotspot Microcell: Effects of Transmit Power Constraints and Finite Dispersion	Proceedings of IEEE Global Telecommunications Conference (GLOBECOM '03), San Francisco, CA, December 2003, pp. 1558-1562.	Radio Technology/SOC
Kishore, S.	Schwartz, S.C., Greenstein, L.J. and Poor, H.V.	Conference Paper	Uplink Throughput in a Single-Macrocell/Single-Microcell CDMA System, with Application to Data Access Points	Proceedings of IEEE Vehicular Technology Conference (VTC '03-Fall), Orlando, FL, October 2003, pp. 922-926.	Radio Technology/SOC
Kishore, S.	Greenstein, L.J., Poor, H.V. and Schwartz, S.C.	Journal Paper	Uplink Capacity In A CDMA Macrocell With A Hotspot Microcell: Exact And Approximate Analyses	IEEE Transactions on Wireless Communications, Vol. 2, No. 2, pp. 364-374, March 2003.	Radio Technology/SOC
Kishore, S.	Greenstein, L.J., Poor, H.V. and Schwartz, S.C.	Conference Paper	Uplink User Capacity Of A Multi-Cell CDMA System With Hotspot Microcells	Proceedings of IEEE Vehicular Technology Conference (VTC '02 – Spring), Vancouver, Canada, May 2002, pp. 992-996.	Radio Technology/SOC
Lai, J.	Mandayam, N.B.	Journal Paper	Performance Analysis of Convolutionally Coded DS/CDMA Systems with Spatial and Temporal Channel Correlations	IEEE Transactions on Communications, Vol. 51, No. 12, pp. 1984-1990, December 2003.	Radio Technology/SOC
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 Technology/SOC
Lelic, D.	Gajic, Z.	Journal Paper	Gauss-Seidel Iterations for SIR-based Updates for 3G Wireless CDMA Communication Networks	International Journal of Wireless Information Networks, Vol. 11, pp. 115-121, 2004.	Radio Technology/SOC
Lin, L.	Yates, R. and Spasojevic, P.	Journal Paper	Adaptive Transmission with Discrete Code Rates and Power Levels	Proceedings of IEEE Transactions on Communications, Vol. 51, No. 12, pp. 2115-2125, December 2003.	Radio Technology/SOC

**List of WINLAB Publications and Talks on Radio Technology/SOC (...continued)
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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Lin, L.	Yates, R.D. and Spasojevic, P.	Conference Paper	Adaptive Transmission with Discrete Code Rates and Channel State Uncertainty	Proceedings of IEEE Global Telecommunications Conference (GLOBECOM '03), San Francisco, CA, December 2003, pp. 1771-1775.	Radio Technology/SOC
Lin, L.	Yates, R.D. and Spasojevic, P.	Conference Paper	Adaptive Transmission with Channel State Uncertainty	Proceedings of the International Symposium on Information Theory (ISIT 2002), pg. 109, June 2002	Radio Technology/SOC
Lin, L.	Yates, R.D. and Spasojevic, P.	Conference Paper	Adaptive Transmission with Discrete Code Rates	Proceedings of IEEE International Conference on Communications (ICC '02), New York, NY, April 2002, pp. 1424-1428.	Radio Technology/SOC
Liu, R.	Spasojevic, P. and Soljanin, E.	Conference Paper	Performance Analysis of Multilevel Punctured Turbo Codes	Proceedings of the 42nd Annual Allerton Conference of Communication, Control and Computing, Monticello, IL, October 2004.	Radio Technology/SOC
Liu, R.	Spasojevic, P. and Soljanin, E.	Conference Paper	Reliable Channel Regions for Good Binary Codes Transmitted over Parallel Channels	Proceedings of IEEE International Symposium on Information Theory (ISIT 2004) Chicago, IL Jun/July 2004, pg. 224	Radio Technology/SOC
Liu, R.	Spasojevic, P. and Soljanin, E.	Conference Paper	Incremental Multi-Hop based "Good" Punctures Codes and its Reliable Hop Rate	Proceedings of IEEE Wireless Communications and Networking Conference, WCNC'04, Atlanta, GA, March 2004, pp. 249-254.	Radio Technology/SOC
Liu, R.	Spasojevic, P. and Soljanin, E.	Conference Paper	User Cooperation with Punctured Turbo Codes	Proceedings of the 41st Annual Allerton Conference on Communication, Control and Computing, Monticello, IL, October 2003.	Radio Technology/SOC
Liu, R.	Spasojevic, P. and Soljanin, E.	Conference Paper	On the Role of Puncturing in Hybrid ARQ Schemes	Proceedings of IEEE Symposium on Information Theory (ISIT '03), Yokohama, Japan, June 2003, pp. 449-449.	Radio Technology/SOC
Liu, R.	Spasojevic, P. and Soljanin, E.	Conference Paper	Punctured Turbo Code Ensembles	Proceedings of IEEE Information Theory Workshop, Paris, France, March/April 2003, pp. 249-252.	Radio Technology/SOC
Lu, G.	Spasojevic, P. and Greenstein, L.	Conference Paper	A Technique for Reducing Frame Synchronization Errors in OFDM UWB Systems with Multipath	To appear in the Proceedings of IEEE 62nd Semi-Annual Vehicular Technology Conference – Fall 2005, Dallas, TX, September 2005.	Radio Technology/SOC
Lu, G.	von der Mark, S., Korisch, I., Greenstein, L.J. and Spasojevic, P.	Journal Paper	Diamond and Rounded Diamond Antennas for Ultra-Wideband Communications	Proceedings of IEEE Antenna and Wireless Propagation Letters, Vol. 3, No. 1, December 2004, pp. 249-252.	Radio Technology/SOC
Lu, G.	Korisch, I., Greenstein, L. and Spasojevic, P.	Conference Paper	Antenna Modelling Using Linear Elements, with Applications to UWB	Proceedings of the IEEE AP-S International Symposium of Antennas and Propagation, Monterey, CA, June 2004, pp. 2544-2547.	Radio Technology/SOC
Lu, G.	Spasojevic, P. and Greenstein, L.	Conference Paper	Antenna and Pulse Designs for Meeting UWB Spectrum Density Requirements	Proceedings of IEEE Conference on Ultra Wideband Systems and Technologies (UWBST '03), Reston, VA, November 2003, pp. 162-166.	Radio Technology/SOC

**List of WINLAB Publications and Talks on Radio Technology/SOC (...continued)
(2002 to Spring 2005)**

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Lu, Y.		Invited Talk	ZnO Detectors and Other Devices	To appear in the Proceedings of EMRS 2005 Spring Meeting, June 2005.	Radio Technology/SOC
Luo, J.	Liu, R. and Spasojevic, P.	Conference Paper	Variable Rate Bit-Interleaved Turbo-Coded Modulation	Proceedings of IEEE International Symposium on Information Theory (ISIT 2004), Chicago, IL, Jun/Jul 2004, pp. 508.	Radio Technology/SOC
Luo, J.	Liu, R. and Spasojevic, P.	Conference Paper	Adaptive Turbo Bit-Interleaved Coded Modulation for Slow Fading Channels	Proceedings of the 36th Annual Conference on Information Sciences and Systems (CISS '04), Princeton, NJ, March 2004.	Radio Technology/SOC
Luo, J.	Yates, R.D. and Spasojevic, P.	Conference Paper	Service Outage Based Power and Rate Allocation for Parallel Fading Channels	Proceedings of IEEE Global Telecommunications Conference (GLOBECOM '03) Vol. 2, San Francisco, pp. 1003-1007, December 2003.	Radio Technology/SOC
Luo, J.	Yates, R.D. and Spasojevic, P.	Conference Paper	Near Optimum Service Outage Based Power Allocations in Parallel Fading Channels	Proceedings of the 35th Annual Conference on Information Sciences and Systems (CISS '03), Baltimore, MD, March 2003.	Radio Technology/SOC
Luo, J.	Lin, L., Yates, R.D. and Spasojevic, P.	Journal Paper	Service Outage Based Power and Rate Allocation	IEEE Transaction on Information Theory Vol. 49, No. 1, pp. 323-330, January 2003.	Radio Technology/SOC
Luo, J.	Yates, R.D. and Spasojevic, P.	Conference Paper	Adaptive Transmission for Mixed Services Over Fading Channels	Proceedings of the 36th Conference on Information Sciences and Systems (CISS '02), Princeton, NJ, March 2002.	Radio Technology/SOC
Luo, J.	Yates, R.D. and Spasojevic, P.	Conference Paper	Service Outage Based Capacity and Optimum Power Allocation for Parallel Fading Channels	Proceedings of the International Symposium on Information Theory, pg. 108, 2002.	Radio Technology/SOC
Mehta, N.B.	Greenstein, L.J., Willis, T.M., and Kostiz, C.	Journal Paper	Analysis And Results For The Orthogonality Factor In WCDMA Downlinks	IEEE Transactions On Wireless Communication, Vol. 2, No. 6, November 2003, pp.1138-1149.	Radio Technology/SOC
Mehta, N.B.	Greenstein, L.J., Willis, T.M., and Kostiz, C.	Conference Paper	Analysis And Results For The Orthogonality Factor In WCDMA Downlinks	Proceedings of IEEE Vehicular Technology Conference (VTC '02 – Spring), Vancouver, Canada, May 2002, pp. 100-104.	Radio Technology/SOC
Muthukumar, S.	Chen, Y., Zhong, J., Cosandey, F., Lu, Y. and Siegrist, T.	Journal Paper	Metalorganic Chemical Vapor Deposition and Characterizations of Epitaxial $Mg_xZn_{1-x}O$ ($0 \leq x \leq 0.33$) Films on <i>r</i> -Sapphire Substrates	Journal of Crystal Growth, Vol. 261, pp. 316-323, February 2004.	Radio Technology/SOC
Muthukumar, S.	Sheng, H., Zhong, J., Zhang, Z., Emanetoglu, N.W. and Lu, Y.	Journal Paper	Selective MOCVD Growth of ZnO Nanotips	IEEE Transactions on Nanotechnology, Vol. 2, No. 1, pp. 50-54, March 2003.	Radio Technology/SOC
Muthukumar, S.	Zhong, J., Chen, Y., Lu, Y. and Siegrist, T.	Journal Paper	Growth and Structural Analysis of Metalorganic Chemical Vapor Deposited (110) $Mg_xZn_{1-x}O$ ($0 < X < 0.33$) Films on (012) R-Plane Al ₂ O ₃ Substrates	Applied Physics Letters, Vol. 82, No.5, pp.742-744, February 2003.	Radio Technology/SOC

**List of WINLAB Publications and Talks on Radio Technology/SOC (...continued)
(2002 to Spring 2005)**

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Patel, S.	Cimini, L.J. and McNair, B.	Conference Paper	Comparison of Frequency Offset Estimation Techniques in Burst OFDM	Proceedings of IEEE Vehicular Technology Conference (VTC '02 – Spring), Vancouver, Canada, May 2002, pp. 772-776.	Radio Technology/SOC
Pilleux, M.	Allahverd, M., Chen, Y., Lu, Y., Jafari, M. and Safari, A.	Journal Paper	3-D Photonic Bandgap Structures in the Microwave Regime by Fused Deposition of Multimerals	Rapid Prototyping Journal, Vol. 8 (1), 46-52, 2002.	Radio Technology/SOC
Popescu, D.C.	Popescu, O. and Rose, C.	Journal Paper	Codeword Optimization for Uplink CDMA Dispersive Channels	To appear in IEEE Transactions on Wireless Communications.	Radio Technology/SOC
Qiu, X	Chang, L., Kostic, Z., Willis, T.M., Mehta, N., Greenstein, L.J., Chawla, K., Whitehead J.F., and Chuang J.	Conference Paper	Some Performance Results For The Downlink Shared Channel In WCDMA	Proceedings of IEEE International Conference on Communications (ICC '02), New York, NY, April 2002. pp. 376-380.	Radio Technology/SOC
Rose, C.	Wright, G.	Conference Paper	Will ET Write or Radiate: Inscribed Mass vs. 2:20PM Electromagnetic Channels	Proceedings of the Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, November 2004, pp. 203-207.	Radio Technology/SOC
Samardzija, D.	Mandayam, N.B. and Seskar, I.	Journal Paper	Multistage Nonlinear Blind Interference Cancellation for DS-CDMA Systems	Journal of VLSI Processing, Vol. 30, pp. 257-271, 2002.	Radio Technology/SOC
Samardzija, D.	Mandayam, N.B. and Seskar, I.	Journal Paper	Blind Successive Interference Cancellation for DS-CDMA Systems	IEEE Transactions on Communications Vol. 50, No. 2, pp.276-290, February 2002	Radio Technology/SOC
Sheng, H.	Emanetoglu, N.W., Muthukumar, S., Yakshinskiy, B., Feng, S. and Lu, Y.	Journal Paper	Ta/Au Ohmic Contacts to n-type ZnO	TMS and IEEE Journal of Electronic Materials, Vol.32, No. 9, pp. 935-937, September 2003.	Radio Technology/SOC
Sheng, H.	Emanetoglu, N.W., Muthukumar, S., Feng, S. and Lu, Y.	Journal Paper	Non-Alloyed Ohmic Contacts to $Mg_xZn_{1-x}O$	Journal of Electronic Materials, Vol. 31, No. 7, pp.811-814, July 2002.	Radio Technology/SOC
Sheng, H.	Muthukumar, S., Emanetoglu, N.W., and Lu, Y.	Journal Paper	Schottky Diode with Ag on (11-20) Epitaxial ZnO Film	Applied Physics Letters, Vol. 80, No. 12, pp. 2132-2134, March 2002.	Radio Technology/SOC
Sinha, R.	Yener, A. and Yates, R.D.	Journal Paper	Noncoherent Multiuser Communications: Multistage Detection and Selective Filtering	EURASIP Journal on Signal Processing, Special Issue on Multiuser Detection and Blind Estimation, 4th Quarter 2002, pp. 1415-1426.	Radio Technology/SOC
Sinha, R.	Yener, A. and Yates, R.D.	Journal Paper	Selective Detection for Noncoherent Multiuser Communications	EURASIP Journal on Applied Signal Processing, Special Issue on Multiuser Detection and Blind Estimation, December 2002.	Radio Technology/SOC
Soljanin, E.	Liu, R. and Spasojevic, P.	Conference Paper	Hybrid ARQ with Random Transmission Assignments	Proceedings of the DIMACS Workshop on Network Information Theory, Piscataway, NJ, March 2003.	Radio Technology/SOC
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 Technology/SOC
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 Technology/SOC

**List of WINLAB Publications and Talks on Radio Technology/SOC (...continued)
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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
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 Technology/SOC
Wielunski, L.S.	Hill, D., Quinn, J., Bartynski, R.A., Wu, P. and Lu, Y.	Journal Paper	Ion Beam Analysis of Thin Doped ZnO Layers	Accepted by Nuclear Instrument and Methods in Physics Research B, 2004	Radio Technology/SOC
Wittstruck, R.H.	Tong, X, Emanetoglu, N.W., Wu, P., Zhu, J., Lu, Y. and Ballato, A	Journal Paper	Characterization of Mg _x Zn _{1-x} O Bulk Acoustic Wave Devices	IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control, Vol. 50, No. 10, October 2003.	Radio Technology/SOC
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	To appear in the Journal of the Acoustic Society of America.	Radio Technology/SOC
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 39th Conference on Information Sciences and Systems (CISS '05), Baltimore, MD, March 2005.	Radio Technology/SOC
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.	Radio Technology/SOC
Wu, D.	Spasojevic, P. and Seskar, I.	Conference Paper	Ternary Complementary Sets for Multiple Channel DS-UWB with Reduced Peak to Average Power Ratio	To appear in the IEEE Proceedings of the Global Telecommunications Conference (GLOBECOM '04), Dallas, TX, December 2004, pp. 3230-3234.	Radio Technology/SOC
Wu, D.	Spasojevic, P. and Seskar, I.	Conference Paper	Two-Dimensional Orthogonal Variable-Spreading-Factor Codes for Multichannel DS-UWB	Proceedings of the 38th Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA. November 2004, pp.627-631.	Radio Technology/SOC
Wu, D.	Spasojevic, P. and Seskar, I.	Conference Paper	Ternary Zero Correlation Zone Sequences for Multiple Code UWB	Proceedings of the 38th Conference on Information Sciences and Systems (CISS '04), Princeton, NJ, March 2004.	Radio Technology/SOC
Wu, H.	Emanetoglu, N.W., Wu, P., Chen, Y. and Lu, Y.	Conference Paper	SAW Analysis of the Mg _x Zn _{1-x} O/SiO ₂ /Si System	Proceedings of 2003 IEEE International Ultrasonics Symposium, Honolulu, HI, October 2003. pp. 897-900.	Radio Technology/SOC
Wu, P.	Saraf, G., Lu, Y., Hill, D.H., Bartynski, R.A., Arena, D.A., Ryu, M-Y., Raley, J.A. and Yeo, Y.K.	Journal Paper	Ion-beam Induced Sharpening of ZnO Nanotips	Applied Physical Letters, No. 85, 1247, 2004.	Radio Technology/SOC
Wu, P.	Emanetoglu, N.W., Chen, Y. and Lu, Y.	Journal Paper	Li Diffusion on Expitaxial (112-0) ZnO on r-Sapphire	To appear in TMS and IEEE Journal of Electronics Materials, Vol. 33, No. 6, 2004.	Radio Technology/SOC
Wu, P.	Zhong, J., Emanetoglu, N.W., Muthukumar, S., Chen, Y. and Lu, Y.	Conference Paper	Li-Diffusion in Expitaxial (01 2) ZnO Thin Films	Proceedings of the 2003 US Workshop on the Physics and Chemistry of II-VI Materials, New Orleans, LA, September 17, 2003.	Radio Technology/SOC

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Yener, A.	Yates, R.D., and Ulukus, S.	Journal Paper	Combined Multiuser Detection and Beamforming for CDMA Systems: Filter Structures	IEEE Transactions on Vehicular Technology Vol. 51, No. 5, pp. 1087-1095, September 2002.	Radio Technology/SOC
Yener, A.	Yates, R.D., and Ulukus, S.	Journal Paper	CDMA Multiuser Detection: A Nonlinear Programming Approach	IEEE Transactions on Communications Vol. 50, No. 6, pp. 1016-1024, June 2002.	Radio Technology/SOC
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 ₃ Substrates	To appear in IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control.	Radio Technology/SOC
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 ₃ Substrate	Accepted by IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control.	Radio Technology/SOC
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