

**List of WINLAB Publications and Talks on Radio Resource Management
(2003 to Spring 2006)
(Listed in alphabetical order by principal author)**

Author	Co-Authors	Paper/Talk	Title	Where/When
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 MILCOM 2005, Atlantic City, NJ, October 2005, pp. 1-7.
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.
Comaniciu, C.	Mandayam, N.B., Famolari, D. and Agrawal, P.	Journal Paper	Wireless Access to the World Wide Web in an Integrated CDMA System	IEEE Transactions on Wireless Communications, Vol. 2, No. 3, pp. 472-483, May 2003.
Feng, N.	Mau, S-C. and Mandayam, N.B.	Journal Paper	Pricing and Power Control for Joint Network-Centric and User-Centric Radio Resource Management	IEEE Transactions on Communications, Vol. 52, No. 9, pp. 1547-1557, September 2004.
Gajic, Z.		Book	Linear Dynamic Systems and Signals	Prentice Hall, Upper Saddle River, New Jersey, 2003.
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.
Gopal, S.	Ramaswamy, K. and Wang, C.	Conference Paper	On Video Multicast over Wireless LANs	Proceedings of the IEEE Conference on Multimedia and Expo (ICME '04), Taipei, Taiwan, June 2004, pp. 1063-1066.
Ji, Tingfang	Feng, N. and Chao, H.J.	Conference Paper	Noncollaborative Coexistence of Wireless Networks: Pareto Optimality	Proceedings of the 41st Annual Allerton Conference on Communication, Control and Computing, Monticello, IL, October 2003.
Jing, X.	Raychaudhuri, D.	Conference Paper	Spectrum Co-existence of IEEE 802.11b and 802.16a Networks Using the CSDC Etiquette Protocol	Proceedings of IEEE International Symposium on New Frontiers in Dynamic Spectrum Access Networks (DySPAN 2005) Baltimore, MD, November 2005, pp. 243-250.
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 th Annual IEEE Global Telecommunications Conference (GLOBECOM 2005) St. Louis, MO, November 2005, pp. 2465-2469.
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), 2006.
Karakayali, K.	Yates, R. D. and Razoumov, L.	Journal Paper	Downlink Throughput Maximization in CDMA Wireless Networks	To appear in IEEE Transactions on Wireless Communications
Karakayali, K.	Foschini, G.J., Valenzuela, R.A. and Yates, R.D.	Conference Paper	On the Maximum Common Rate Achievable in a Coordinated Network	To appear in the Proceedings of IEEE International Conference on Communications, Istanbul, Turkey, June 2006.
Karakayali, K.	Foschini, G.J. and Valenzuela, R.A.	Invited Article	Network Coordination for Spectrally Efficient Communications in Cellular Systems	To appear in IEEE Wireless Communications Magazine.
Karakayali, K.	Yates, R. and Razoumov, L.	Conference Paper	Throughput Maximization on the Downlink of a CDMA System	Proceedings of IEEE Wireless Communications and Networking Conference (WCNC), New Orleans, LA., March 2003, pp. 894-901.

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Karakayali, K.	Yates, R. and Razoumov, L.	Conference Paper	Joint Power and Rate Control in Multiaccess Systems with Multirate Services	Proceedings of Conference on Information Sciences and Systems (CISS), The Johns Hopkins University, MD., March 2003.
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.
Krishnan, P.	Krishnakumar, A.S., Ju, W-H., Mallows, C. and Ganu, S.	Conference Paper	A System for LEASE: System for Location Estimation Assisted by Stationary Emitters for Indoor RF Wireless Networks	Proceedings of IEEE Infocom 2004, Hong Kong, March 7-11, 2004, pp. 1001-1010.
Li, X.	Martin, R.P.	Conference Paper	A Simple Ray-Sector Signal Strength Model for Indoor 802.11 Networks	Proceedings of the 2nd IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS 2005), Washington, DC, November 2005, pp.639-648.
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.
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.
Luo, J.	Blum, R., Cimini, L.J., Greenstein, L.J. and Haimovich, A.M.	Conference Paper	New Approaches for Cooperative Use of Multiple Antennas in Ad Hoc Wireless Networks	Proceedings of the IEEE Vehicular Technology Conference (VTC '04-Fall), Los Angeles, CA, September 2004, pp. 2769-2773.
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.
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.
Maric, I.	Yates, R.D. and Kramer, G.	Conference Paper	The Strong Interference Channel with Common Information	Proceedings of the 43 rd Annual Allerton Conference on Communications, Control and Computing, Monticello, IL, September 2005.
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.
Maric, I.	Yates, R.D.	Conference Paper	Bandwidth and Power Allocation for Cooperative Strategies in Gaussian Relay Networks	Proceedings of the Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, November 2004, pp. 1907-1911.
Maric, I.	Yates, R.D.	Conference Paper	Static and Dynamic Cooperative Multicast for Maximum Network Lifetime	Proceedings of the 42nd Annual Allerton Conference on Communications, Control and Computing, Monticello, IL, September 2004.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Maric, I.	Yates, R.D.	Journal Paper	Cooperative Multihop Broadcast for Wireless Networks	Journal on Selected Areas in Communications (JSAC) Special Issue on Fundamental Performance Limits of Wireless Sensor Networks, Vol. 22, No.6, pp. 1080-1088, August 2004.
Maric, I.	Yates, R.D.	Conference Paper	Forwarding Strategies for Gaussian Parallel-Relay Networks	Proceedings of the IEEE International Symposium on Information Theory (ISIT '04), Chicago, IL, June 2004, pg. 269.
Maric, I.	Yates, R.D.	Invited Paper	Cooperative Broadcast for Maximum Network Lifetime	Proceedings of the Conference on Information Sciences and Systems (CISS '04), Princeton, NJ, March 2004.
Maric, I.	Yates, R.D.	Conference Paper	Forwarding Strategies for Gaussian Parallel-Relay Networks	Proceedings of the Conference on Information Sciences and Systems (CISS '04), Princeton, NJ, March 2004.
Maric, I.	Yates, R.D.	Conference Paper	Performance of Repetition Codes and Punctured Codes for Accumulative Broadcast	Proceedings of the Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks Workshop (WiOpt'03), INRIA Sophia Antipolis, France, March 2003.
Mathur, S.	Sankaranarayanan, L. and Mandayam, N.B.	Conference Paper	Coalitional Games in Gaussian Interference Channels	To appear in the Proceedings of the International Symposium on Information Theory, Seattle, WA, July 2006.
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.
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), Punta del Este, Uruguay, March 2006.
Popescu, D.C.	Popescu, O. and Rose, C.	Conference Paper	Interference Avoidance Versus Iterative Water Filling in Multiaccess Vector Channels	Proceedings of the IEEE Vehicular Technology Conference (VTC '04-Fall), Los Angeles, CA, September 2004, pp. 2058-2062.
Popescu, D.C.	Rose, C.	Conference Paper	Multuser MIMO Systems and Interference Avoidance	Proceedings IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP '03), Hong Kong, Conference cancelled due to SARS, but proceedings published pp. 828-831.
Popescu, D.C.	Rose, C.	Journal Paper	Interference Avoidance and Multuser MIMO systems	International Journal of Satellite Communications and Networking, January 2003.
Popescu, O.	Popescu, D. and Rose, C.	Conference Paper	Interference Avoidance for Capacity Optimization in Mutually Interfering Wireless Systems	Proceedings of the 62 nd IEEE Vehicular Technology Conference (VTC 2005 Fall), Dallas, TX, September 2005, pp. 593-597.
Popescu, O.	Popescu, D. and Rose, C.	Conference Paper	Greedy Interference Avoidance in Non-Collaborative Multi-Base Wireless Systems	Proceedings of the 39 th Conference on Information Sciences and Systems (CISS 2005) Baltimore, MD, March 2005.
Popescu, O.	Rose, C.	Journal Paper	Greedy SINR Maximization in Collaborative Multi-Base Wireless Systems	EURASIP Journal on Wireless Communications and Networking, Vol. 2004, No. 2, pp.201-209, December 2004.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Popescu, O.	Rose, C. and Popescu, D.	Conference Paper	Signal Space Partitioning Versus Simultaneous Water Filling for Mutually Interfering Systems	Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM '04), Dallas, TX, December 2004, pp. 3128-3132.
Popescu, O.	Rose, C.	Journal Paper	Sum Capacity and TSC Bounds in Collaborative Multibase Wireless Systems	IEEE Transactions on Information Theory, Vol. 50, No. 1, pp. 2433-2438, October 2004.
Popescu, O.	Rose, C. and Popescu, D.	Book Chapter	Maximizing the Determinant for a Special Class of Block-Partitioned Matrices	Mathematical Problems in Engineering, Vol. 2004, No. 1, pp. 49-61, May 2004.
Popescu, O.	Rose, C. and Popescu, D.	Conference Paper	Strong Interference and Spectrum Warfare	Proceedings of the 38th Conference on Information Sciences and Systems (CISS '04), Princeton, NJ, March 2004.
Popescu, O.	Rose, C.	Conference Report	Water Filling May Not Good Neighbors Make	Proceedings of IEEE Global Telecommunication Conference (GLOBECOM '03), San Francisco, CA, December 2003, pp.1766-1770.
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.
Rajappan, G.	Acharya, J., Liu, H., Mandayam, N., Seshkar, 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.
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.
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.
Raychaudhuri, D.		Invited Talk	Research on Spectrum Technology and Policy: An Interim Report Rutgers/Cornell/Michigan State	CSTB Spectrum Management Policy Forum, Washington DC, February 12-13, 2004.
Raychaudhuri, D.		Invited Talk	Higher Layer Cognitive Radio Techniques: Spectrum Servers & Etiquette Protocols	FCC Spectrum Seminar, Washington DC, May, 2003.
Raychaudhuri, D.	Jing, X.	Conference Paper	A Spectrum Etiquette Protocol for Efficient Coordination of Radio Devices in Unlicensed Bands	Proceedings of the 14th IEEE International Symposium on Personal , Indoor Mobile Radio Communications, Beijing, China, September 2003, pp. 172-176.
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
Rose, C.		Invited Talk	If ET Writes, What Might We Look For?	Conference on Space Archaeology, British Interplanetary Society, May 10, 2006, London, UK
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.

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Rose, C.	Wright, G.	Journal Paper	Inscribed Matter as an Energy-Efficient Means of Communication with an Extraterrestrial Civilization	Nature Magazine, Volume 431, pp. 47-49, September 2, 2004.
Rose, C.	Popescu, D.	Book	Interference Avoidance Methods for Wireless Systems	Series: Information Technology: Transmission, Processing and Storage, Kluwer, 2004. http://www.springeronline.com/sga/cda/frontpage/0,11855,5-40109-22-33348025-0,00.html
Sankaranarayanan, 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.
Sankaranarayanan, L.	Kramer, G. and Mandayam, N.	Conference Paper	Cooperative Diversity in Wireless Networks: A Geometry-inclusive Analysis	Proceedings of the 43 rd Annual Allerton Conference on Communications, Control and Computing, Allerton, IL, September 2005.
Sankaranarayanan, L.	Kramer, G. and Mandayam, N.	Conference Paper (Invited)	Hierarchical Sensor Networks: Capacity Theorems and Cooperative Strategies Using the Multiple Access Relay Channel Model	Proceedings of the 38th Annual Asilomar Conference on Signals, Systems and Computers, Pacific Grove, CA, November 2004, pp. 1912-1916.
Sankaranarayanan, L.	Kramer, G. and Mandayam, N.	Conference Paper	Hierarchical Sensor Networks: Capacity Theorems and Cooperative Strategies Using the Multiple Access Relay Channel Model	Proceedings of the 1st Annual IEEE Sensor Conference (SECON), Santa Clara, CA, October 2004, pp. 191-199.
Sankaranarayanan, L.	Kramer, G. and Mandayam, N.	Conference Paper	Capacity Theorems for the Multiple-Access Repay Channel	Proceedings of the 42nd Annual Allerton Conference on Communication, Control and Computing, Monticello, IL, October 2004.
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
Ulukus, S.	Yates, R.	Journal Paper	User Capacity of Asynchronous CDMA Systems with Matched Filter Receivers and Optimum Signature Sequences	IEEE Transactions on Information Theory, Vol. 50, No. 5, pp. 903-909, May 2004.
Wu, D.	Spasojevic, P. and Seskar, I.	Conference Paper	Ternary Complementary Sets for Orthogonal Pulse Based UWB	Proceedings of the Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, November 2003, pp.1776-1780.
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.
Yuen, W.H.	Yates, R.D.	Conference Paper	Optimum Transmit Range and Capacity of Mobile Infostation Networks	Proceedings of IEEE Global Telecommunication Conference (GLOBECOM '03), San Francisco, CA, December 2003, pp. 1130-1135.
Yuen, W.H.	Yates, R.D. and Sung, C.W.	Conference Paper	Performance Evaluation of Highway Mobile Infostation Networks	Proceedings of IEEE Global Telecommunication Conference (GLOBECOM '03), San Francisco, CA, December 2003, pp. 934-939.