

# List of WINLAB Publications and Talks for Radio Resource Management

(2009 to Fall 2012)

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Acharya, J.	Yates, R.D.	Conference Paper	Service Provider Competition and Pricing for Dynamic Spectrum Allocation	Proceedings of the IEEE International Conference on Game Theory for Networks, Istanbul, Turkey, May 2009, pp. 190-198.	Radio Resource Management
Acharya, J.	Yates, R.D.	Journal Paper	Dynamic Spectrum Allocation for Uplink Users with Heterogeneous Utilities	IEEE Transactions on Wireless Communications, Vol. 8, No. 3, pp. 1405-1413, March 2009.	Radio Resource Management
Gerami, C.	Mandayam, N. and Greenstein, L.	Conference Paper	Backhauling in TV White Spaces	Proceedings of the IEEE Global Communications Conference (GLOBECOM 2010), Miami, FL, December 2010, pp. 1-6.	Radio Resource Management
Godrich, H.	Petropulu, A. and Poor, H.V.	Conference Paper	Estimation Performance and Resource Savings: Tradeoffs in Multiple Radar Systems	Proceedings of the IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2012), Kyoto, Japan, March 2012, pp. 5205-5208.	Radio Resource Management
Godrich, H.	Petropulu, A. and Poor, H.V.	Journal Paper	Sensor Selection in distributed Multiple-Radar Architectures for Localization: A Knapsack Problem Formulation	IEEE Transactions on Signal Processing, Vol. 60, No. 1, pp. 247-260, January 2012	Radio Resource Management
Godrich, H.	Petropulu, A. and Poor, H.V.	Journal Paper	Power Allocation Strategies for Target Localization in Distributed Multiple Radar Architectures	IEEE Transactions on Signal Processing, Vol. 59, No. 7, pp. 3226-3240, July 2011.	Radio Resource Management
Godrich, H.	Petropulu, A. and Poor, H.V.	Conference Paper	Optimal Power Allocation in Distributed Multiple-Radar Configurations	Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2011), Prague, Czech Republic, February 2011, pp. 2492-2495.	Radio Resource Management
Godrich, H.	Petropulu, A. and Poor, H.V.	Conference Paper	A Combinatorial Optimization Framework for Subset Selection in Distributed Multiple-Radar Architecture	Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2011), Prague, Czech Republic, February 2011, pp. 2796-2799.	Radio Resource Management
Islam, M.N.	Balasubramanian, S., Mandayam, N., Seskar, I. and Kompella, S.	Conference Paper	Implementation of Distributed Time Exchange Based Cooperative Forwarding	Proceedings of the 2012 Military Communications Conference (MILCOM 2012), Orlando, FL, October/November 2012	Radio Resource Management
Islam, M.N.	Mandayam, N.B. and Kompella, S.	Conference Paper	Optimal Resource Allocation and Relay Selection in Bandwidth Exchange Based Cooperative Forwarding	Proceedings of the 10 <sup>th</sup> International Symposium on Mobile, Ad Hoc and Wireless Networks (WiOpt 2012), Paderborn, Germany, May 2012, pp. 192-199.	Radio Resource Management
Kang, J.	Zhang, Y. and Nath, B.	Journal Paper	An Optimal Resource Control Scheme Under Fidelity and Energy Constraints in Sensor Networks	Wireless Networks, Volume 15, No. 4, pp. 497-512, May 2009.	Radio Resource Management
Krishnan, N.	Yates, R.D. and Mandayam, N.	Conference Paper	Cellular Systems with Many Antennas: Large System Analysis under Pilot Contamination	Proceedings of the 50 <sup>th</sup> Annual Allerton Conference on Communication Control and Computing, Monticello, IL, October 2012.	Radio Resource Management
Krishnan, N.	Yates, R.D., Mandayam, N.B. and Panchal, J.S.	Journal Paper	Bandwidth Sharing for Relaying in Cellular Systems	IEEE Transactions on Wireless Communications, Vol. 11, No. 1, pp. 117-129, January 2012.	Radio Resource Management
Krishnan, N.	Panchal, J., Mandayam, N. B. and Yates, R.D.	Conference Paper	Bandwidth Sharing for LTE-A Relaying Systems	Proceedings of the 48 <sup>th</sup> Annual Allerton Conference on Communication, Control and Computing, Monticello, IL, October 2010, pp. 1125-1128.	Radio Resource Management

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Li, T.	Mandayam, N.B. and Reznik, A.	Journal Paper	A Framework for Distributed Resource Allocation and Admission Control in a Cognitive Digital Home	To appear in the IEEE Transactions on Wireless Communication	Radio Resource Management
Li, T.	Mandayam, N. B.	Invited Paper	Prospects in a Wireless Random Access Game	Proceedings of the 46 <sup>th</sup> Annual Conference on Information Sciences and Systems (CISS 2012), Princeton, NJ, March 2012.	Radio Resource Management
Li, T.	Mandayam, N. and Reznik, A.	Conference Paper	Distributed Algorithms for Joint Channel and RAT Allocation in a Cognitive Digital Home	Proceedings of the 9 <sup>th</sup> International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks, Princeton, NJ, May 2011, pp. 213-219.	Radio Resource Management
Li, T.	Mandayam, N. and Reznik, A.	Conference Paper	A Framework for Resource Allocation in a Cognitive Digital Home	Proceedings of IEEE Global Communications Conference (GLOBECOM 2010), Miami, FL, December 2010, pp. 1-5.	Radio Resource Management
Liu, Y.	Petropulu, A.	Conference Paper	QoS Guarantees in Relay Networks with Multiple Source-Destination Pairs and Imperfect CSI	Proceedings of the IEEE 7 <sup>th</sup> Sensor Array and Multichannel Signal Processing Workshop (SAM 2012), Hoboken, NJ, June 2012, pp. 101-104.	Radio Resource Management
Liu, Y.	Petropulu, A.	Journal Paper	On the Sumrate of Amplify-and-Forward Relay Networks with Multiple Source-Destination Pairs	IEEE Transactions on Wireless Communications, Vol. 10, No. 11, pp. 3732-3742, November 2011.	Radio Resource Management
Liu, Y.	Petropulu, A.	Conference Paper	On Amplify-and-Forward Relay Networks with Multiple Source-Destination Pairs	Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM 2010), Miami, FL, December 2010, pp. 1-5.	Radio Resource Management
Luo, S.	Godrich, H., Petropulu, A. and Poor, H.V.	Conference Paper	Knapsack Problem Formulation for Relay Selection in Secure Cooperative Wireless Communications	Proceedings of IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2011), Prague, Czech Republic, February 2011, pp. 2512-2515.	Radio Resource Management
Mandayam, N.		Keynote Address	Towards Green Techniques for Wireless	The 9 <sup>th</sup> IFIP Annual Mediterranean Ad Hoc Networking Workshop (MedHocNet 2010), Juan-Les-Pins, France, June 2010.	Radio Resource Management
Mandayam, N.			Resource Allocation In Cognitive Radio Networks	Briefer to the JASON Study on Cognitive Radio Networks, San Diego, CA, June 2010.	Radio Resource Management
Mandayam, N.		Panelist	Towards Green Wireless	IEEE Sarnoff Symposium, Princeton, NJ, April 2010.	Radio Resource Management
Maric, I.	Yates, R.D.	Journal Paper	Bandwidth and Power Allocation for Cooperative Strategies in Gaussian Relay Networks	IEEE Transactions on Information Theory, Vol. 56, No. 4, pp. 1880-1889, April 2010.	Radio Resource Management
Pinagapany, S.	Sequeira, S., Bindiganavile, A., Futatsugi, Y., Ariyoshi, M. and Spasojevic, P.	Conference Paper	Experimental Evaluation of Interference Avoidance Opportunistic Secondary Transmission for Coexistence with Primary Systems	Proceedings of the Wireless Innovation Forum Conference on Communications Technologies and Software Defined Radio (SDR '11-WinnComm), Washington, DC, November/December 2011.  ***Best Paper - R & D Track***	Radio Resource Management
Raman, C.	Foschini, G.J., Valenzuela, R.A., Yates, R.D. and Mandayam, N.	Journal Paper	Half-Duplex Relaying in Downlink Cellular Systems	IEEE Transactions on Wireless Communications, Vol. 10, No. 5, pp. 1396-1404, May 2011.	Radio Resource Management
Raman, C.	Foschini, G.J., Valenzuela, R.A., Yates, R.D. and Mandayam, N.	Conference Paper (Invited)	Relaying in Downlink Cellular Systems	Proceedings of the 44 <sup>th</sup> Annual Conference on Information Sciences and Systems (CISS 2010), Princeton, NJ, March 2010, pp. 1-6.	Radio Resource Management

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Raman, C.	Foschini, G.J., Valenzuela, R.A., Yates, R.D. and Mandayam, N.B.	Conference Paper	Power Savings from Half-Duplex Relaying in Downlink Cellular Systems	Proceedings of the 47 <sup>th</sup> Annual Allerton Conference on Communication, Control, and Computing, Monticello, IL, September 2009, pp. 748-753.	Radio Resource Management
Raychaudhuri, D.	Mandayam, N.	Journal Paper	Frontiers of Wireless and Mobile Communications	IEEE Proceedings, Vol. 100, No. 4, April 2012, pp. 824-840.	Radio Resource Management/ Mobile Networks
Tang, X.	Ramprasad, S.A. and Papadopoulos	Conference Paper	Multi-Cell User Scheduling and Random Beamforming Strategies for Downlink Wireless Communications	Proceedings of the IEEE 70 <sup>th</sup> Vehicular Technology Conference (VTC 2009), Anchorage, Alaska, September 2009, pp. 1-5.	Radio Resource Management
Wang, Q.	Cimini, L.J., Greenstein, L.J. and Chan, D.S.	Conference Paper	Interference Management Approaches for MU-MIMO with Shadow Fading Channels	Proceedings of the 45 <sup>th</sup> Annual Conference on Information Sciences and Systems (CISS 2011), Baltimore, MD, March 2011, pp. 1-6 .	Radio Resource Management
Ye, C.	Mathur, S., Reznik, A., Shah, Y., Trappe, W. and Mandayam, N.	Journal Paper	Information-Theoretically Secret Key Generation for Fading Wireless Channels	IEEE Transactions on Information Forensics and Security, Vol. 5, No. 2, pp. 240-254, June 2010.	Radio Resource Management
Yu, Y.	Petropulu, A. and Poor, H.V.	Conference Paper	Power Allocation for CS-Based Colocated MIMO Radar Systems	Proceedings of the IEEE 7 <sup>th</sup> Sensor Array and Multichannel Signal Processing Workshop (SAM 2012), Hoboken, NJ, June 2012, pp. 217-220.	Radio Resource Management
Zhang, D.	Su, K. and Mandayam, N.	Conference Paper	Network Coding Aware Resource Allocation to Improve Throughput	Proceedings of the IEEE International Symposium on Information Theory (ISIT 2012), Cambridge, MA, July 2012, pp. 1311-1315.	Radio Resource Management
Zhang, D.	Mandayam, N.	Conference Paper	Bandwidth Exchange for Fair Secondary Coexistence in TV White Space	Proceedings of the 2nd International ICST Conference on Game Theory for Networks (GameNets), Shanghai, China, April 2011.	Radio Resource Management
Zhang, D.	Shinkuma, R. and Mandayam, N.	Conference Paper	Bandwidth Exchange for Enabling Forwarding in Wireless Access Networks	Proceedings of the 20th Personal, Indoor and Mobile Radio Communications Symposium 2009 (PIMRC'09), Tokyo, Japan, September 2009, pp. 2628-2632.	Radio Resource Management