

**List of WINLAB Publications and Talks for Mobile Networks  
(2002 to Spring 2005)  
(Listed in alphabetical order by principal author)**

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Acharya, J.	Roy, R., Singh, J. and C. Rose	Conference Paper	Optimal Signature Sets for Transmission of Correlated Data over a Multiple Access Channel	To appear in the IEEE Proceedings of the Global Telecommunications Conference (GLOBECOM '04), Dallas, TX, December 2004, pp.1046-1050.	Mobile Networks Radio Resource Management
Atay, F.	Rose, C.	Conference Paper	Threshold-Based Policies for Mobile Infostations	Proceedings of Conference on Information Sciences and Systems (CISS '04), Princeton, NJ, March 2004	Mobile Networks/Radio Resource Management
Atay, F.	Rose, C.	Conference Paper	Exploiting Mobility in Multi-hop Infostation Networks to Decrease Transmit Power	Proceedings of IEEE Wireless Communications and Networks Conference (WCNC 2004), Atlanta, GA, March 2004, pp. 2353-2358.	Mobile Networks/Radio Resource Management
Bohge, M.	Trappe, W.	Conference Paper	TESLA Certificates: An Authentication Tool for Networks of Compute-Constrained Devices	Proceedings of the IEEE 6 <sup>th</sup> International Symposium on Wireless Personal Multimedia Communications, Yokosuka, Japan, October 2003.	Mobile Networks
Bohge, M.	Trappe, W.	Conference Paper	An Authentication Framework for Hierarchical Ad Hoc Sensor Networks	Proceedings of the 2003 ACM Workshop on Wireless Security, San Diego, CA, September 2003, pp.79-87.	Mobile Networks
Fazal, L.	Ganu, S., Kappes, M., Krishnakumar, A.S and Krishnan, P.	Conference Paper	Tackling Security Vulnerabilities in VPN based Wireless Deployments	Proceedings of the International Conference on Communications (ICC '04), Paris, France, June 2004, pp. 100-104.	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
Ganu, S.	Zhao, S., Raju, L., Anepu, B., Seskar, I. and Raychaudhuri, D.	Conference Paper	Architecture and Prototyping of an 802.11 based Self-Organizing Hierarchical Ad-Hoc Wireless Network (SOHAN)	Proceedings of International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2004), Barcelona, Spain, September 2004, pp. 880-884.	Mobile Networks
Ganu, S.	Krishnakumar, A.S. and Krishnan, P.	Conference Paper	Infrastructure-based Location Estimation in WLAN Networks	Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC '04), Atlanta, GA, March 2004, pp. 465-470.	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

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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.	Mobile Networks/Radio Resource Management
Liu, H.	Razoumov, L. and Mandayam, N.	Conference Paper	Optimal Power Allocation for Type II Hybrid – ARQ via Geometric Programming	Proceedings of the 37th Annual Conference on Information Sciences and Systems, The John Hopkins University, March 2005.	Mobile Networks
Liu, H.	Razoumov, L., Raychaudhuri, D., Suh, C. and Yoon, S.	Conference Paper	Optimal Power Allocation for Type II H-ARQ under Frame Error Rate Constraint	Proceedings of the 38th Annual Conference on Information Sciences and Systems, Princeton, NJ, March 2004.	Mobile Networks
Liu, H.	Bhaskaran, H., Raychaudhuri, D. and Verma, S.	Conference Paper	Capacity Analysis of a Cellular Data System with 3G/WLAN Interworking	Proceedings of IEEE Vehicular Technology Conference (VTC '03-Fall), Orlando, FL, October 2003, pp. 1817-1821.	Mobile Networks
Mangharam, R.	Demirhan, M., Rajkumar, R. and Raychaudhuri, D.	Conference Paper	Size Matters: Size-based Scheduling for MPEG-4 over Wireless Channels	Proceedings of the SPIE Conference on Multimedia Computing and Networking 2004, Santa Clara, CA January 2004.	Mobile Networks
Naik, R.	Biswas, S. and Datta, S.	Conference Paper	Distributed Sleep-Scheduling Protocols for Energy Conservation in Wireless Networks	To appear in the Proceedings of the Hawaii International Conference on System Sciences, Big Island, Hawaii, January 2005, pp. 285b.	Mobile Networks
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
Ott, M.	Raychaudhuri, D., Gomezjurado, J. and Reiningger, D.	Conference Paper	Using Infostations and Semantic Routing to Provide Cost-Effective Broadband Mobile Services: A Technical and Business Case Study	Proceedings of Mobile and Multimedia Communications Conference (MoMuC-8), Munich, Germany, October 2003.	Mobile Networks
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
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

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
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	To appear in Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC'05), New Orleans, LA, March 2005.	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
D. Raychaudhuri		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
Raychaudhuri, D.		Keynote Speech	Adaptive Wireless Using Cognitive Radios as a Building Block	ACM MobiCom '2004. Keynote Speech, Philadelphia, PA, September 2004	Mobile Networks
Raychaudhuri, D.		Invited Talk	From Cellular Phones to Sensor Nets & Pervasive Computing	Rutgers University School of Engineering, April 27, 2004.	Mobile Networks
Raychaudhuri, D.	With B. Pradhan (IIT Bombay)	Invited Talk	R&D Challenges for Next-Generation Wireless Networks and Their Relevance to the Indian Context	ELITEX2004, New Delhi, India, April 27, 2004.	Mobile Networks
Raychaudhuri, D.		Invited Talk	Self-Organizing Hierarchical Ad-Hoc Wireless Networks	Intel Mesh Network Workshop, Portland OR, April 1-2, 2004.	Mobile Networks
Raychaudhuri, D.		Invited Talk	Enabling Technologies and Research Directions for Ubiquitous Networks	NTT DoCoMo 4G Forum, Yokosuka, Japan, March 15, 2004.	Mobile Networks
Raychaudhuri, D.		Invited Talk	Self-Organizing Ad-Hoc Network Technologies for Future Wireless Systems	IEEE Globecom Panel, San Francisco, CA, December 5, 2003.  World Wireless Research Forum (WWRF '03) New York, NY, October 2003.	Mobile Networks
Raychaudhuri, D.		Invited Talk	Future Wireless Directions	NORTEL Wireless Forum VII, Ottawa, Canada, November 6, 2003.	Mobile Networks
Raychaudhuri, D.		Invited Talk	Rapidly Deployable Wireless Networks for Emergency Communications & Sensing Applications	DIMACS Homeland Security Workshop, Rutgers University, September 2003.	Mobile Networks
Raychaudhuri, D.		Invited Talk	Selected Topics in Next Generation Wireless Networks: Ad-Hoc Nets, Adaptive Services and QoS	Microsoft Research Seminar, Redmond, WA August 4, 2003.	Mobile Networks
Raychaudhuri, D.		Invited Lecture	Wireless Sensor Networks	Wireless and Optical Communications Conference (WOCC '04), Newark, NJ, April 26, 2003.	Mobile Networks

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Raychaudhuri, D.		Invited Lecture	Topics in 4G Wireless Networks: Ad Hoc Nets, Adaptive Services & QoS	ANWIRE, Glasgow, UK, April 22, 2003.	Mobile Networks
Raychaudhuri, D.		Talk (Invited)	4G Network Architectures: Infostations, WLAN Hotspots and Beyond	Keynote Speech at PIMRC 2002, Lisbon, Portugal, September 16, 2002.	Mobile Networks
Raychaudhuri, D.		Talk (Invited)	WINLAB Research Overview and Ad-Hoc Networking Topics	IBM T.J. Watson Research Center, Hawthorne, NY, February 19, 2002.	Mobile Networks
Raychaudhuri, D.		Book Chapter	Wireless ATM Networks	Chapter in "Wireless Communications in the 21st Century," M. Shafi, ed., IEEE Press, Piscataway, NJ, 2002.	Mobile Networks
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
Trappe, W.	Song, J., Poovendran, R. and Liu, R.	Journal Paper	Key Management and Distribution for Secure Multimedia Multicast	IEEE Transactions on Multimedia, Vol. 5, No. 4, pp. 544-557, December 2003.	Mobile Networks
Trappe, W.	Wang, Y. and Liu, K.J.R.	Conference Paper	Establishment of Conference Keys in Heterogeneous Networks	Proceedings of IEEE International Conference on Communications (ICC 2002), New York, NY, May 2002, pp. 2201-2205.	Mobile Networks
Trappe, W.	Sun, Y. and Liu, K.J.R.	Conference Paper	An Efficient Key Management Scheme for Secure Wireless Multicast	Proceedings of IEEE International Conference on Communications (ICC 2002), New York, NY, May 2002, pp. 1236-1240.	Mobile Networks
Trappe, W.	Sun, B., Sun, Y. and Liu, K.J.R.	Conference Paper	A Time-Efficient Contributory Key Agreement Scheme for Secure Group Communications	Proceedings of IEEE International Conference on Communications (ICC 2002), New York, NY, May 2002, pp. 1159-1163.	Mobile Networks
Wang, Z.J.	Wu, M., Trappe, W. and Liu, K.J.	Conference Paper	Anti-Collusion of Group-Oriented Fingerprinting	2003 International Conference on Multimedia and Expo, (ICME '03), Baltimore MD, Volume 1, July 2003, pp. 217-220.	Mobile Networks
Wu, Z.	Raychaudhuri, D.	Conference Paper	D-LSMA: Distributed Link Scheduling Multiple Access Protocol for QoS in Ad-Hoc Networks	IEEE Proceedings of the Global Telecommunications Conference (GLOBECOM '04), Dallas, TX, December 2004, pp. 1670-1675.	Mobile Networks
Xu, W.	Trappe, W., Zhang, Y. and Wood, T.	Conference Paper	The Feasibility of Launching and Detecting Jamming Attacks in Wireless Networks	To appear in the Proceedings of the MOBIHOC 2005 Conference, Urbana-Champaign, IL, May 2005.	Mobile Networks
Xu, W.	Trappe, W. and Paul, S.	Conference Paper	Key Management for 3G MBMS Security	Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM '04), Dallas, TX, December 2004, pp. 2276-2280.	Mobile Networks

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Xu, W.	Wood, T., Trappe, W. and Zhang, Y.	Conference Paper	Channel Surfing and Spatial Retreats: Defenses Against Wireless Denial of Service	Proceedings of ACM Workshop of Wireless Security (WiSe 2004), Philadelphia, PA, October 2004, pp. 80-89.	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	To appear in the Proceedings of the IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WoWMoM 2005), Taormina, Italy, June 2005.	Mobile Networks
Zhao, S.	Seskar, I., Raychaudhuri, D.	Conference Paper	Performance and Scalability of Self-Organizing Hierarchical Ad Hoc Wireless Networks	Proceedings of Wireless Communications and Networking Conference (WCNC '04), Atlanta, GA, March 2004, pp.132-137.	Mobile Networks
Zhao, Suli	Tepe, K., Seskar, I. and Raychaudhuri, D.	Conference Paper	Routing Protocols for Self-organizing Hierarchical Ad Hoc Wireless Networks	IEEE Sarnoff Symposium 2003, March 2003.	Mobile Networks