

## List of WINLAB Publications and Talks

(2005 to Fall 2008)

Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Brik, V.	Banerjee, S., Gruteser, M. and Oh, S.	Conference Paper	Wireless Device Identification with Radiometric Signatures	Proceedings of the 14 <sup>th</sup> International Conference on Mobile Computing and Networking (MOBICOM 2008), San Francisco, CA, September 2008, pp. 116-127.	Mobile Computing
Chen, S.	Chen, Y. and Trappe, W.	Extended Abstract	Exploiting Environmental Properties for Wireless Localization	ACM Mobile Computing and Communication Review (MC2R), Vol. 12, No. 1, pp. 49-51, January 2008.	Mobile Computing
Chen, S.	Chen, Y. and Trappe, W.	Conference Paper	Exploiting Environmental Properties for Wireless Localization and Location Aware Applications	Proceedings of the IEEE International Conference on Pervasive Computing and Communications (PerCom 2008), Hong Kong, China, March 2008, pp. 90-99.	Mobile Computing
Chen, S.	Chen, Y. and Trappe, W.	Conference Paper	Exploiting Environmental Properties for Wireless Localization (Student Poster)	Proceedings of the 13 <sup>th</sup> Annual ACM/IEEE International Conference on Mobile Computing and Networking (MobiCom 2007), Montreal, Canada, September 2007.	Mobile Computing
Chen, Y.	Trappe, W. and Martin, R.	Conference Paper	Detecting and Localizing Wireless Spoofing Attacks	Proceedings of the 4 <sup>th</sup> Annual IEEE Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON 2007), San Diego, CA, June 2007, pp. 193-202.	Mobile Computing
Chen, Y.	Trappe, W. and Martin, R.	Conference Paper	Attack Detection in Wireless Localization	Proceedings of the 26 <sup>th</sup> IEEE Conference on Computer Communications (INFOCOM 2007), Anchorage, AK, May 2007, pp. 1964-1972.	Mobile Computing
Chen, Y.	Trappe, W. and Martin, R.	Conference Paper	ADLS: Attack Detention for Wireless Localization Using Least Squares	Proceedings of the 5 <sup>th</sup> Annual IEEE International Conference on Pervasive Computing and Communications (PerCom 2007), White Plains, NY, March 2007, pp. 610-613.	Mobile Computing
Chen, Y.	Francisco, J-A., Trappe, W. and Martin, R.	Conference Paper	A Practical Approach to Landmark Deployment for Indoor Localization	Proceedings of the 3 <sup>rd</sup> Annual Conference on Sensor, Mesh and Ad Hoc Communications and Networks, (SECON 2006), Reston, VA, September 2006, pp. 365-373.	Mobile Computing
Chen, Y.	Kleisouris, K., Li, X., Trappe, W. and Martin, R.	Conference Paper	The Robustness of Localization Algorithms to Signal Strength Attacks: A Comparative Study	Proceedings of the International Conference on Distributed Computing in Sensor Systems (DCOSS 2006), San Francisco, CA, June 2006.	Mobile Computing
Gruteser, M.	Hoh, B.	Book Chapter	Privacy Preservation of GPS Traces	Encyclopedia of GIS. Shashi Shekhar, Hui Xiong (Eds.) Springer.	Mobile Computing
Gruteser, M.	Grunwald, D.	Journal Paper	Enhancing Location Privacy in Wireless LAN through Disposable Interface Identifiers	ACM Mobile Networks and Applications (MONET), Vol. 10, No. 3, pp. 315-325, June 2005.	Mobile Computing
Haber, S.	Kamat, P.	Conference Paper	A Content Integrity Service for Long-Term Digital Archives	Proceedings of the IS&T Archiving Conference (Archiving 2006), Ottawa, Canada, May 2006.	Mobile Computing
Hoh, B.	Gruteser, M., Herring, R., Ban, J., Work, D., Herrera, J-C., Bayen, A.M., Annavaram, M. and Jacobson, Q.	Conference Paper	Virtual Trip Lines for Distributed Privacy-Preserving Traffic Monitoring	To appear in the proceedings of the 6 <sup>th</sup> International Conference on Mobile Systems, Applications and Services (MobiSys 2008), Breckenridge, CO, June 2008, pp. 15-28.	Mobile Computing

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Hoh, B.	Gruteser, M., Xiong, H. and Alrabady, A.	Conference Paper	Preserving Privacy in GPS Traces via Uncertainty-Aware Path Cloaking	Proceedings of the ACM Conference on Computer Communications Security (CCS), Alexandria, VA, October 2007, pp. 161-171.	Mobile Computing
Hoh, B.	Gruteser, M., Xiong, H. and Alrabady, A.	Journal Paper	Enhancing Security and Privacy in Traffic Monitoring Systems	IEEE Pervasive Computing Magazine, Vol. 5, No. 4, pp. 38-46, October-December 2006.	Mobile Computing
Hoh, B.	Gruteser, M., Xiong, H. and Alrabady, A.	Poster Paper	Enhancing Privacy Preservation of Anonymous Location Sampling Techniques: A Traffic Monitoring Case Study	Proceedings of the 2 <sup>nd</sup> International Conference on Security and Privacy for Emerging Areas in Communication Networks (SecureComm 2006), Baltimore, MD, August 2006, pp. 1-3.	Mobile Computing
Hoh, B.	Gruteser, M.	Conference Paper	Computer Ecology: Responding to Mobile Worms with Location-Based Quarantine Boundaries	Proceedings of the International Workshop on Research Challenges in Security and Privacy for Mobile and Wireless Networks (WSPWN 2006), Miami, FL, March 2006.	Mobile Computing
Hoh, B.	Gruteser, M.	Conference Paper	Protecting Location Privacy Through Path Confusion	Proceedings of IEEE/CreateNet International Conference on Security and Privacy for Emerging Areas in Communication Networks (SecureComm 2005), Athens, Greece, August/September 2005, pp. 194-205.	Mobile Computing
Jiang, N.	Schmidt, C. and Parashar, M.	Conference Paper	A Decentralized Content-Based Aggregation Service for Pervasive Environments	Proceedings of the IEEE International Conference on Pervasive Services (ICPS 2006), Lyon, France, June 2006, pp. 203-212.	Mobile Computing
Jiang, N.	Schmidt, C., Matossian, V. and Parashar, M.	Conference Paper	Enabling Applications in Sensor-Based Pervasive Environments	Proceedings of the Workshop on Broadband Advanced Sensor Networks (BaseNets 2005), San Jose, CA October 2005.	Mobile Computing
Kamat, P.	Xu, W., Zhang, Y. and Trappe, W.	Conference Paper	Temporal Privacy in Wireless Sensor Networks	Proceedings of the 27 <sup>th</sup> International Conference on Distributed Computing Systems (ICDCS 2007), Toronto, Ontario, June 2007, pg. 23.	Mobile Computing
Kamat, P.	Zhang, Y., Trappe, W. and Ozturk, C.	Conference Paper	Enhancing Source-Location Privacy in Sensor Network Routing	Proceedings of the 25th International Conference on Distributed Computing Systems (ICDCS 2005), Columbus, OH, June 2005, pp. 599-608.	Mobile Computing
Kleisouris, K.	Martin, R.	Conference Paper	Parallel Algorithms for Bayesian Indoor Positioning Systems	Proceedings of the International Conference on Parallel Processing (ICPP 2007), Xian, China, September 2007, pg. 15.	Mobile Computing
Li, Q.	Trappe, W.	Journal Paper	Reducing Delay and Enhancing DoS Resistance in Multicast Authentication through Multi-grade Security	IEEE Transactions on Information Forensics and Security, Vol. 1, pp. 190-204, June 2006.	Mobile Computing
Li, Z.	Xu, W., Miller, R. and Trappe, W.	Conference Paper	Securing Wireless Systems via Lower Layer Enforcements	Proceedings of the 7 <sup>th</sup> International Conference on Web Information Systems Engineering, Wuhan, China, October 2006.	Mobile Computing

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Li, Z.	Trappe, W.	Conference Paper	Collusion-resistant Fingerprints from WBE Sequence Sets	Proceedings of the IEEE International Conference on Communications, Seoul, Korea, May 2005, pp. 1336-1340.	Mobile Computing
Li, Z.	Trappe, W., Zhang, Y. and Nath, B.	Conference Paper	Robust Statistical Methods for Securing Wireless Localization in Sensor Network Services against Random Failures	Proceedings of the IEEE/ACM International Conference of Information Processing in Sensor Networks (IPSN), Los Angeles, CA, April 2005, pp. 91-98.	Mobile Computing
Liang, Y.	Zhang, Y., Xiong, H., Sahoo, R. and Sivasubramaniam	Conference Paper	Failure Prediction in IBM BlueGene/L Event Logs	Proceedings of the IEEE International Conference on Data Mining (ICDM 2007), Omaha, NE, October 2007, pp. 583-588.	Mobile Computing
Liang, Y.	Zhang, Y., Xiong, H. and Sahoo, R.	Conference Paper	An Adaptive Semantic Filter for BlueGene/L Failure Log Analysis	Proceedings of the 3 <sup>rd</sup> International Workshop on System Management Techniques, Processes and Services (SMTPS 2007), Long Beach, CA, March 2007.	Mobile Computing
Liang, Y.	Zhang, Y., Sivasubramaniam, A., Jette, M. and Sahoo, R.	Conference Paper	BlueGene/L Failure Analysis and Prediction Models	Proceedings of IEEE International Conference on Dependable Systems and Networks (DSN 2006), Philadelphia, PA, June 2006, pp. 425-434.	Mobile Computing
Liang, Y.	Zhang, Y., Sivasubramaniam, A., Sahoo, R., Moreira, J. and Gupta, M.	Conference Paper	Filtering Failure Logs for a BlueGene/L Prototype	Proceedings of IEEE International Conference on Dependable Systems and Networks (DSN 2005), Yokohama, Japan, June 2005, pp. 476-485.	Mobile Computing
Liu, K.J.R.	Trappe, W., Wang, Z.J., Wu, M. and Zhao, H.	Book	Digital Fingerprinting for Multimedia Forensics	Hindawi Press, 2005.	Mobile Computing
Oh, S.	Gruteser, M.	Conference Paper	Location-Based Flooding Techniques for Vehicular Emergency Messaging	Proceedings of the Second International Workshop on Vehicle-to-Vehicle Communications (V2VCOM, held in conjunction with MOBIQUITOUS), San Jose, CA, July 2006, pp. 1-9.	Mobile Computing
Sahoo, R.K.	Squillante, M.S., Sivasubramaniam, A. and Zhang, Y.	Conference Paper	Failure Data Analysis of a Large Scale Heterogeneous Server Environment	Proceedings of the 2004 International Conference on Dependable Systems and Networks (DSN 2004) Florence, Italy, July 2004, pp. 772-781.	Mobile Computing
Sun, Y.	Trappe, W. and Liu, K.J.R.	Book	Network-Aware Security for Group Communications	Springer-Verlag, under development for release in 2007.	Mobile Computing
Trappe, W.	Washington, L.C.	Book	Introduction to Cryptography with Coding Theory	Prentice Hall, (First Edition 2001, Second Edition 2005)	Mobile Computing
Trappe, W.	Zhang, Y. and Nath, B.	Conference Paper	MIAMI: Methods and Infrastructure for the Assurance of Measurement Information	Proceedings of the 2 <sup>nd</sup> International VLDB Workshop on Data Management for Sensor Networks, Trondheim, Norway, August 2005, pp. 11-17.	Mobile Computing
Trappe, W.	Wang, Y. and Liu, K.J.R.	Journal Paper	Resource-Aware Conference Key Establishment for Heterogeneous Networks	IEEE/ACM Transactions on Networking, Vol. 13, pp. 134-146, February 2005.	Mobile Computing

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Author	Co-Authors	Paper/Talk	Title	Where/When	Category
Trappe, W.	Wu, M., Wang, Z.J. and Liu, K.J.R.	Journal Paper	Anti-collusion Fingerprinting for Multimedia	IEEE Transactions on Signal Processing Vol. 51, No. 4, pp. 1069-1087, April 2003. *****IEEE SPS Best Paper Award 2005*****	Mobile Computing
Wang, Z.J.	Wu, M., Zhao, H.V., Trappe, W. and Liu, K.J.R.	Journal Paper	Anti-Collusion Forensics of Multimedia Fingerprinting Using Orthogonal Modulation	IEEE Transactions on Image Processing, Vol. 14, No. 6, pp. 804-821, June 2005.	Mobile Computing
Wang, Z.J.	Wu, M., Trappe, W. and Liu, K.J.R.	Journal Paper	Group Oriented Fingerprinting for Multimedia Forensics	EURASIP Journal of Applied Signal Processing, pp. 2153-2173, October 2004. ***** (2005 EURASIP Best Paper Award) *****	Mobile Computing