MARCO O. GRUTESER

Department of Electrical and Computer Engineering
Wireless Information Network Laboratory (WINLAB)
Rutgers University

PROFESSIONAL PREPARATION

Darmstadt Univ of Tech, Germany	Computer Science	Vordiplom 1998
University of Colorado at Boulder	Computer Science	M.S. 2000
University of Colorado at Boulder	Computer Science	Ph.D. 2004

APPOINTMENTS

Rutgers University, Dept. of Electrical and Computer Eng., and, by courtesy, Computer Science
Member of the Wireless Information Network Laboratory (WINLAB*)*
Associate Professor — *July 2010 – Present*
Assistant Professor — *July 2004 – June 2010*

Carnegie Mellon University, Cylab, Dept. of Electrical and Computer Eng. (Prof. Adrian Perrig)
Visiting Researcher — *Jan 2011 – Apr 2011*

University of Colorado at Boulder, Computer Systems Group (Prof. Dirk Grunwald)
Research Assistant — *Aug 2001 – May 2004*

IBM T. J. Watson Research Center, Yorktown Heights and Hawthorne, NY
m-Solutions Group (Dr. Paul Chou)
Research Associate — *Oct 2000 – Aug 2001*
Research Intern — *Summers 2000, 2002, 2003*

FIVE RELATED PRODUCTS

[1] T. Vu, A. Baid, S. Gao, M. Gruteser, R. Howard, J. Lindqvist, P. Spasojevic, J. Walling, "Distinguishing Users with Capacitive Touch Communication," *ACM International Conference on Mobile Computing and Networking (MobiCom)*, Istanbul, Turkey, 2012. **Best Paper Award.**

[2] H.-C. Hsiao, T. Kim, A. Perrig, A. Yamada, S. Nelson, M. Gruteser, W. Ming, "LAP: Lightweight Anonymity and Privacy*," IEEE Symposium on Security and Privacy*, Oakland, CA, 2012.

[3] I. Rouf, R. Miller, H. Mustafa, T. Taylor, S. Oh, W. Xu, M. Gruteser, W. Trappe, I. Seskar, "Security and Privacy Vulnerabilities of In-Car Wireless Networks: A Tire Pressure Monitoring System Case Study", *USENIX Security Symposium*, 2010.

[4] B. Hoh, M. Gruteser, H. Xiong, A. Alrabady. Preserving Privacy in GPS Traces via Density-Aware Path Cloaking. *ACM Conference on Computer and Communications Security (CCS)*, Alexandria, VA, 2007.

[5] V. Brik, S. Banerjee, M. Gruteser, S. Oh. Wireless Device Identification with Radiometric Signatures. *ACM MobiCom,* 2008.

FIVE OTHER SIGNIFICANT PRODUCTS

[1] I. Rouf, H. Mustafa, M. Xu, W. Xu, R. Miller, M. Gruteser, "Neighborhood Watch: Security and Privacy Analysis of Automatic Meter Reading Systems", *ACM CCS,* 2012.

[2] J. Yang, S. Sidhom, G. Chandrasekharan, T. Vu, N. Cecan, H. Liu, Y. Chen, M. Gruteser, and R. Martin, "Detecting Driver Phone Use Leveraging Car Speakers", *ACM MobiCom*, 2011. **Best Paper Award.**

[3] ParkNet: Drive-by Sensing of Road-side Parking Statistics. S. Mathur, T. Jin, N. Kasturirangan, J. Chandrasekharan, W. Xue, M. Gruteser, W. Trappe, *ACM International Conference on Mobile Systems (MobiSys)*, 2010. **Best Paper Award.**

[4] B. Hoh, M. Gruteser, R. Herring, J. Ban, D. Work, J. Herrera, A. Bayen, M. Annavaram, Q. Jacobson, "Virtual Trip Lines for Distributed Privacy-Preserving Traffic Monitoring", *ACM MobiSys*, 2008.

[5] M. Gruteser and D. Grunwald, „Anonymous Usage of Location-Based Services through Spatial and Temporal Cloaking", *ACM MobiSys*, 2003.

SYNERGISTIC ACTIVITIES

[1] Treasurer and member of the executive committee for ACM SIGMOBILE

[2] Served as General Co-Chair International Workshop on Vehicular Internetworking (VANET), Chicago, Il, 2011, and program co-chair for ACM MobiSys 2015, ACM WiSec 2013, IEEE Percom 2013, and IEEE VNC 2013.

[3] Regularly serve as technical program committee member for conferences and workshops such as: ACM MobiCom, ACM/USENIX Mobisys, ACM Hotmobile, ACM Ubicomp, IEEE Infocom.

[4] Designed and developed new undergraduate class "Network-Centric Programming". Developed curricular materials and laboratory exercises to teach system and network programming.

[5] Serving as Associate Editor for IEEE Transactions on Mobile Computing and formerly Elsevier Computer Networks.

COLLABORATORS (past 48 months, except Rutgers colleagues)

Suman Banerjee (Univ of Wisc); Adrian Perrig, Jason Hong (CMU); Michael Reiter (Univ of N Carolina), Margaret Martonosi, Jennifer Rexford (Princeton Univ); Mario Gerla (UCLA); Ramesh Govindan (USC); Arun Venkataramani, Jim Kurose, Don Towsley (Univ of Mass); David Wetherall (Univ of Wash); Alexandre Bayen (UC Berkeley); Yingying Chen (Stevens Inst of Tech); Ramon Caceres, Alex Varshavsky (AT&T Research); John Kenney (Toyota ITC); Fan Bai (General Motors); Ravi Kokku, Honghai Zhang, Karthik Sundaresan, Sampath Rangarajan (NEC Labs); Quinn Jacobson (Nokia Research); Eric Blossom (Blossom Research); Tamer Nadeem (Siemens Research), Romit Roy Choudhury, Xiaowei Yang (Duke University); Byrav Ramamurthy (Univ of Nebraska); Guanling Chen (Univ of Mass-Lowell); Bill Lehr (MIT); Wenyuan Xu (Univ of S Carolina); Jeff Ban (RPI), Fei Hu (Univ. of Alabama).

THESIS ADVISOR: Dirk Grunwald, University of Colorado
PH.D. GRADUATE ADVISEES (8): Baik Hoh (Nokia Research, now Microsoft), Kishore Ramachandran (NEC Labs, now startup), Mesut Ali Ergin (Intel Labs), Gayathri Chandrasekharan (Verizon Wireless), Sanjit Kaul (IIIT Delhi), Sangho Oh (AT&T Labs), Bin Zan (Broadcom), Tam Vu (University of Colorado), Ashwin Ashok (CMU), Wenjia Yuan (Google)
M.S. GRADUATE ADVISEES (7): Amar Patel (Siemens), Tashina Charagi (Motorola), Lin Luo (Rutgers), Janani Chandrasekharan (Network Appliance), Tong Jin (Rutgers), Nileema Shingte (Facebook), Sangeetha Siddegowda (Qualcomm)