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■ schen23@buffalo.edu

Education

University at Buffalo - SUNY

Buffalo, NY

Ph.D., Computer Science (GPA 3.8)

Sep. 2012 - Feb. 2016

- Research Assistance in Ubiquitous Security and Privacy Research Laboratory (UbiSeC Lab)

University at Buffalo - SUNY

Buffalo, NY

M.S., Electrical Engineering (GPA 3.8)

Sep. 2010 - May. 2012

- Research Assistance in Wireless Networks and Embedded Systems Lab (WINES Lab)

Selected Publications

- * Si Chen, Muyuan Li, Kui Ren, Xinwen Fu, Chunming Qiao, "Rise of the Indoor Crowd: Reconstruction of Building Interior View via Mobile Crowdsourcing," in Proceedings of the 13th ACM Conference on Embedded Networked Sensor Systems (SenSys), 2015.
- * Si Chen, Muyuan Li, Kui Ren, Chunming Qiao, "CrowdMap: Accurate Reconstruction of Indoor Floor Plan from Crowdsourced Sensor-Rich Videos," in Proceedings of the 35th IEEE International Conference on Distributed Computing Systems (ICDCS), 2015.
- * Muyuan Li, Haojin Zhu, Zhaoyu Gao, Si Chen, Le Yu, Shangqian Hu, Kui Ren, "All your location are belong to us: Breaking mobile social networks for automated user location tracking," in Proceedings of the 15th ACM international symposium on Mobile ad hoc networking and computing (Mobihoc), 2014.
- * Bingsheng Zhang, Qin Zhan, Si Chen, Muyuan Li, Kui Ren, Cong Wang, Di Ma, "PriWhisper: Enabling Keyless Secure Acoustic Communication for Smartphones," in IEEE Internet of Things Journal, 2014.
- * E Koski, S Chen, S Pudlewski, T Melodia, "Network simulation for advanced HF communications engineering," in The 12th International Conference on Ionospheric Radio Systems and Techniques (IRST), 2012.

Research Projects

IndoorCrowd Buffalo, NY

Project Leader, Ubiquitous Security and Privacy Research Laboratory (UbiSeC Lab)

Jun. 2013 - Present

- Proposed a low-cost crowdsource-based method to reconstruct indoor floor plan that utilize sensor-rich video data from mobile users.
- Innovatively exploited the sequential relationship between consecutive frames to improve system performance. Our experiments in three college buildings demonstrate that we achieve a hallway shape precision of 88%.

AcousAuth Buffalo, NY

Project Leader, Ubiquitous Security and Privacy Research Laboratory (UbiSeC Lab)

Jun. 2013 - Oct. 2013

- Designed and Implemented a smartphone empowered personal authentication system exploiting keyless acoustic communication.
- Winner of the 19th Annual International Conference on Mobile Computing and Networking (MobiCom'13) App Competition Finalists (top 10).

Work Experience

Sina Weibo (China)

Beijing, China

Application Dev Engineer (Internship)

Apr. 2010 - July. 2010

- Used Python (Matplotlib), Javascript (jQuery) and PHP with MySQL to build an UNIX cluster administration system
- Created an usage frequency indicator to show Weibo's current usage frequency in different areas using Python, C, PHP with MySQL, Javascript

Skills

Programming Languages: Python, Javascript, Java, C++, C

Operating Systems: Linux (Gentoo, ArchLinux), OS X, Windows,