

Si Chen

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EDUCATION

- **University at Buffalo - SUNY, Buffalo, NY, USA**
Ph.D. in Computer Science and Engineering, May 2016
Thesis: “Cloud-assisted Mobile Sensing System”
Advised by Professor Kui Ren
- **University at Buffalo - SUNY, Buffalo, NY, USA**
M.S. in Electrical Engineering, May 2012
Thesis: “Groundwave Modelling and Online Simulation System for Advanced HF Radio Networking”
Advised by Professor Tommaso Melodia
- **China Agricultural University, Beijing, China**
B.S. in Measuring & Control Technology and Instrumentations (School of Engineering), June 2010

PUBLICATIONS

Conference Papers

- C-1. **Si Chen**, Muyuan Li, Kui Ren, Xinwen Fu, Chunming Qiao. Rise of the Indoor Crowd: Reconstruction of Building Interior View via Mobile Crowdsourcing. *The 13th ACM Conference on Embedded Networked Sensor Systems (SenSys'15)*, Seoul, South Korea, November 1-4, 2015, **13-page**.
Acceptance ratio < 20%.
- C-2. **Si Chen**, Muyuan Li, Kui Ren, Chunming Qiao. CrowdMap: Accurate Reconstruction of Indoor Floor Plan from Crowdsourced Sensor-Rich Videos. *The 35th IEEE International Conference on Distributed Computing Systems (ICDCS'15)*, Columbus, Ohio, June 29 - July 2, 2015, pp. 1-10, **10-page**.
Acceptance ratio = 70/543 = 12.89%.
- C-3. 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. *The 15th ACM international symposium on Mobile ad hoc networking and computing (MobiHoc'14)*, Philadelphia, PA, August 11-14, 2014, pp. 43-52, **10-page**.
Acceptance ratio = 40/211 = 18.9%. **Citations** > 22.
- C-4. Eric Koski, **Si Chen**, Scott Pudlewski, Tommaso Melodia. Network simulation for advanced HF communications engineering. *The 12th International Conference on Ionospheric Radio Systems and Techniques (IRST'12)* York, UK, May 15-17, 2012, pp. 45, **5-page**.
- C-5. **Si Chen**, Lina Ling, Yuan Rongchang, Longqing Sun. Classification Model of Seed Cotton Grade Based on Least Square Support Vector Machine Regression Method. *The 6th IEEE International Conference on Information and Automation for Sustainability (ICIAfS'12)*, Beijing, China, 2012, pp. 198-202, **4-page**.
- C-6. Rongchang Yuan, Zhengjiang Li, **Si Chen**. Movement and deformation of virtual object based on argument passing method. *The IEEE International Conference on Virtual*

Environments, Human-Computer Interfaces and Measurement Systems (VEC-IMS'12), Tianjin, China, 2012, pp. 103-106, **5-page**.

- C-7. Rongchang Yuan, **Si Chen**, Zhengjiang Li, Shengrong Lu, Li Wang, Haigan Yuan. Simulation and Models on Control of Pests with Ozone in Greenhouses Plant. *The IASTED International Conference on Modeling, Simulation, and Identification (MSI'11)*, Pittsburgh, PA, Nov 7-9, 2011, **5-page**.
- C-8. Rongchang Yuan, Haigan Yuan, **Si Chen**, Longqing Sun, Feng Qin, Han Zhang, Yukun Zhu, Daokun Ma. Research on the k-coverage local wireless network and its communication coordination mechanism design. *the 5th International Conference on Computer and Computing Technologies in Agriculture (CCTA '11)*, Beijing, China, Oct 29-31, 2011, **12-page**.

Journal and Magazine Articles

- J-1. Bingsheng Zhang, Qin Zhan, **Si Chen**, Muyuan Li, Kui Ren, Cong Wang, Di Ma. PriWhisper: Enabling Keyless Secure Acoustic Communication for Smartphones. *IEEE Internet of Things Journal (IoT)*, 2014. Accepted for publication. Citations > 10.

SYNERGISTIC ACTIVITIES

- **Technical Program Committee (TPC)** for Milcom 2016
- **Conference Reviewer** for ICCCN'16, ACM CCS'15, ICDCS'15, ESORICS'15, AsiaCCS'15, Cloud'15, ICCCN'15, DBSec'15, CloudCom'15, ACM CHI'15, CloudNet'15, ISC'15, Securecomm'15, IEEE MSN'15, IPCCC'15, INFOCOM'14, ACM CCS'14, ICDCS'14, ESORICS'14, ICNP'14, AisaCCS'14, MobiHoc'14, CNS'14, CloudNet'14, DBSec'14, SecureComm'14.
- **Journal Reviewer** for IEEE Trans. on Parallel and Distributed Systems, IEEE Trans. on Services Computing, IEEE Trans. on Smart Grid, IEEE Trans. on Vehicular Technology, IEEE Trans. on Wireless Communications, IEEE Security & Privacy magazine, IEEE Network Magazine, Journal of Computer Security, Journal of Mobile Communication, Computation and Information, Journal of Parallel and Distributed Computing.
- **Webchair** for the 27th IEEE Annual Computer Communications Workshop (CCW'13).

COLLABORATORS AND APPOINTMENTS

- **Recent collaborators:** Chunming Qiao (University at Buffalo), Xinwen Fu (University of Massachusetts Lowell), Tommaso Melodia (Northeastern University), Lu Su (University at Buffalo).
- **Appointments:** Advisor for WCU Computer Science Club. Coach for ICPC ACM programming competition.

HONORS AND AWARDS

- The 19th Annual International Conference on Mobile Computing and Networking (ACM Mobicom'13) App Competition Finalists (top 10), 2013
- Student Travel Grant Awards, IEEE ICDCS 2015
- Top 100 Excellent Graduate Theses in China Agricultural University, 2010
- Excellent Graduate Award in China Agricultural University, 2010
- National University Student Innovation Program Award, 2009-2010
- Undergraduate Research Program Award, 2007-2008
- Third Prize of International Interdisciplinary Contest in Modeling (ICM), 2009
- Third Prize of Scholarship for Excellent Academic Performance, 2007, 2008, 2009
- Awarded "The best debater" title in debate competitions, 2006, 2007