

Bio of Fan Ye

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Professional Preparation

Tsinghua University, Beijing, China, Automation, B.E., 1996
Tsinghua University, Beijing, China, Computer Science, M.S., 1999
UCLA, Los Angeles, California, USA, Computer Science, Ph.D., 2004

Appointments

09/2018 - Present, Associate Professor, Dept. of Electrical and Computer Engineering, Stony Brook University, Stony Brook, NY
08/2014 - 08/2018, Assistant Professor, Dept. of Electrical and Computer Engineering, Stony Brook University, Stony Brook, NY
08/2004 - 07/2014, Research Staff Member, IBM T. J. Watson Research Center, Yorktown Heights, NY

Research Interests

Mobile/embedded systems, applications and infrastructure for health care; smart aging; edge computing; data centric wireless communication; Internet-of-Things

Select Publications

- Bing Zhou, Jay Lohokare, Ruipeng Gao, Fan Ye, "EchoPrint: Two-factor Authentication using Acoustics and Vision on Smartphones," in ACM Mobicom 2018 (acceptance rate: 22.5%)
- Yan Wang, Yingying Chen, Fan Ye, Hongbo Liu, Jie Yang, "Implications of Smartphone User Privacy leakage from the Advertiser's Perspective," *Pervasive and Mobile Computing* Vol 53, pp 13-32, 2019
- Qian Zhou, Mohammed Elbadry, Fan Ye, Yuanyuan Yang, "Heracles: Scalable, Fine-grained Access Control for Internet-of-Things in Enterprise Environments," in IEEE Infocom 2018 (acceptance rate: 19.2%)
- Zhe Zhang, Yu Gu, Fan Ye, Hao Yang, Minkyong Kim, Hui Lei and Zhen Liu, "A Hybrid Approach to High Availability in Stream Processing Systems," in *IEEE International Conference on Distributed Computing Systems (ICDCS)*, 2010
- Michael Branson, Fred Douglass, Brad Fawcett, Zhen Liu, Anton Riabov, Fan Ye, "CLASP: Collaborating, Autonomous Stream Processing Systems", in *ACM/USENIX International Middleware Conference (Middleware)*, 2007
- Qian Zhou, Fan Ye, "APEX: Automatic Precondition Execution with Isolation and Atomicity in Internet-of-Things," in ACM/IEEE IoTDI 2019, Best Paper Runner-up
- Bing Zhou, Mohammed Elbadry, Ruipeng Gao, Fan Ye, "BatTracker: High Precision Infrastructure-free Mobile Device Tracking in Indoor Environments," in ACM Sensys 2017
- Bing Zhou, Mohammed Elbadry, Ruipeng Gao, and Fan Ye, "BatMapper: Acoustic Sensing Based Indoor Floor Plan Construction Using Smartphones," in ACM Mobisys 2017
- Ruipeng Gao, Mingmin Zhao, Tao Ye, Fan Ye, Yizhou Wang, Kaigui Bian, Tao Wang, Xiaoming Li, "Jigsaw: Indoor Floor Plan Reconstruction via Mobile Crowdsensing," in the 20th Annual International Conference on Mobile Computing and Networking (MobiCom 2014), Hawaii, USA, September 7-11, 2014 (acceptance rate: 16.4%)
- Mohammed Elbadry, Bing Zhou, Fan Ye, Peter Milder, YuanYuan Yang, "Poster: A Raspberry Pi Based Data-Centric MAC for Robust Multicast in Vehicular Networks," ACM Mobicom 2018

Major Research and Community Activities

- **Inventions and Publications:** 30+ granted/pending multi-national/US patents or patent applications, and over 120 peer-reviewed publications; together cited more than 14,000 times according to Google Scholar, with h-index 41.
- **Honors and Awards:** Outstanding Young Engineer Award, IEEE Long Island Section 2018; Stony Brook CEAS Dean's Millionaires Club Award, three times; NSF CAREER Award 2017; Google Faculty Research Award 2017; Best Paper Award Runner-up, *IEEE International Conference on Mobile Ad hoc and Sensor Systems* 2013; Best Paper Award, *International Conference on Parallel Processing* 2008, IBM Research Division Award, 2008; IBM Research Invention Achievement Plateau Awards, 5 times, 2007-2013
- **Major Conference Organizations:** TPC Co-Chair for IEEE ICDCS 2022, ACM/IEEE IWQoS 2023; Program Committees for IEEE Infocom 2008-2023; IEEE ICDCS 2019; Posters Co-chair ACM Mobicom 2015, 2016; IEEE LCN, IEEE Globecom 2013; IEEE Percom, IFIP Networking 2012; IEEE ICCCN, IEEE Globecom 2011; IEEE Globecom 2010; ACM Sensys 2009; IEEE ICDCS 2008, IEEE Percom WIP, IEEE Mobiquitous 2007.
- **Proposal Review Panels:** NSF 2023, 2022, 2021, 2020, 2019, 2018, 2017, 2014; NSF 2012; NSF 2009-2010; Hong Kong Government Research Grant Council (multiple times), Natural Sciences and Engineering Research Council of Canada 2016
- **Professional Positions:** Editorial Review Board Member: *IEEE Transactions on Cloud Computing* (2019-present); *International Journal of Handheld Computing Research* (2009-2010), *International Journal of Distributed Sensor Networks* (2011-2013), *MDPI Sensors* (2016-present); Chair for IBM Research Mobile Computing Professional Interest Community (2010-2011)