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个人简介

本人研究兴趣是移动计算、端侧智能，在该研究方向上，已发表高水平学术论文50余篇，其中CCF-A类（MobiCom、UbiComp、ICSE、FSE、ACL、WWW、TMC）或领域顶级会议（MobiSys、ICLR）论文30余篇，一作/通讯20余篇。Google Scholar被引2000+次，h-index 24。本人主持或作为核心成员承担国家自然科学基金委面上项目、国家重点研发项目子课题、基金委重点项目等，研究工作获UbiComp最佳论文提名奖、IS-EUD最佳论文奖、GreenCom杰出论文奖、中国自动化学会科技进步一等奖、ACM SIGBED China新星奖等奖项。研究工作对应的开源工具系统如DroidBot、AutoDroid等被研究社区广泛使用。近年来，随着大模型与智能体技术的发展，本人在端侧智能体方面的研究工作获得高度关注和认可，主笔起草国家标准一项，主笔联合撰写鸿蒙AI终端白皮书，对相关技术产业落地提供了重要参考。这些产业实践也同时促进了研究工作的扩展和深入。未来，本人将致力于高效安全的端侧智能体研究，为人工智能在关键边缘端场景的大规模部署应用提供基础。

教育经历

博士研究生，计算机软件与理论，北京大学 2014.09 – 2019.07

导师：郭耀、陈向群

访问博士生，卡内基梅隆大学 2016.09 – 2017.09

导师：Jason I. Hong, Yuvraj Agarwal

本科，计算机科学与技术，北京大学 2010.09 – 2014.09

工作及科研经历

助理研究员，清华大学智能产业研究院，北京，中国 2021.11 至今

研究员、高级研究员，微软亚洲研究院，北京，中国 2019.07 – 2021.11

研究实习生，微软研究院，雷德蒙德，美国 2018.05 – 2018.08

主要论文列表

\*代表共同第一作者或通讯作者（指导学生为第一作者）

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8. Li Zhang, Shihe Wang, Xianqing Jia, Zhihan Zheng, Yunhe Yan, Longxi Gao, **Yuanchun Li**, Mengwei Xu. “LlamaTouch: A Faithful and Scalable Testbed for Mobile UI Automation Task Evaluation”. The ACM Symposium on User Interface Software and Technology **(UIST 2024, CCF-A)**
9. **Yuanchun Li**, Hao Wen, Weijun Wang, Xiangyu Li, Yizhen Yuan, Guohong Liu, Jiacheng Liu, Wenxing Xu, Xiang Wang, Yi Sun, Rui Kong, Yile Wang, Hanfei Geng, Jian Luan, Xuefeng Jin, Zilong Ye, Guanjing Xiong, Fan Zhang, Xiang Li, Mengwei Xu, Zhijun Li, Peng Li, Yang Liu, Ya-Qin Zhang, Yunxin Liu. "Personal LLM Agents: Insights and Survey about the Capability, Efficiency and Security".
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11. Xiangyu Li, **Yuanchun Li**, Yuanzhe Li, Ting Cao, and Yunxin Liu. "FlexNN: Efficient and Adaptive DNN Inference on Memory-Constrained Edge Devices". In Proceedings of the 30th Annual International Conference on Mobile Computing and Networking. **(MobiCom 2024, CCF-A)**
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36. Liu Wang, Ren He, Haoyu Wang, Pengcheng Xia, **Yuanchun Li**, Lei Wu, Yajin Zhou, Xiapu Luo, Yulei Sui, Yao Guo, Guoai Xu. “Beyond the Virus: A First Look at Coronavirus-themed Android Malware”. Empirical Software Engineering **(EMSE 2021, CCF-B)**.
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43. Haojian Jin, Minyi Liu, Kevan Dodhia, Yuanchun Li, Gaurav Srivastava, Matthew Fredrikson, Yuvraj Agarwal, and Jason I. Hong. 2018. Why Are They Collecting My Data? Inferring the Purposes of Network Traffic in Mobile Apps. Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 2, 4, Article 173 (December 2018), 27 pages. (UbiComp 2020, CCF-A).
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49. Yuanchun Li, Yao Guo, and Xiangqun Chen. “PERUIM: Understanding Mobile Application Privacy with Permission-UI Mapping.” In Proceedings of the 2016 ACM International Joint Conference on Pervasive and Ubiquitous Computing, 682-693. (UbiComp 2016, CCF-A, Honorable Mention Award).
50. Yuanchun Li, Yao Guo, Junjun Kong and Xiangqun Chen. “Fixing Sensor-Related Energy Bugs Through Automated Sensing Policy Instrumentation.” IEEE/ACM International Symposium on Low Power Electronics and Design, 321-326. (ISLPED 2015, CCF-C).

开源软件

主导开发的一些开源工具在相应的研究领域获得了广泛使用：

* DroidBot – 轻量级Android应用动态分析工具 （800+ stars）
  + https://github.com/honeynet/droidbot
* PrivacyStreams – 隐私安全的个人数据编程框架（200+ stars）
  + https://github.com/PrivacyStreams/PrivacyStreams
* AutoDroid – 基于大语言模型的移动任务自动化智能体（200+ stars）
  + https://github.com/MobileLLM/AutoDroid

荣誉和奖励

* ACM SIGBED China新星奖 2024
* 中国自动化学会科技进步一等奖 2023
* IEEE GreenCom Distinguished Paper Award 2023
* 博士生国家奖学金 2017
* IS-EUD Best Paper Award 2017
* Bosch/Bezirk物联网黑客马拉松第一名（1000美元） 2016
* UbiComp最佳论文提名奖 2016
* Google编程之夏（5500美元） 2016
* 北京大学三好学生 2016
* Google编程之夏（5500美元） 2015