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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1900+次，h-index 22。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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7. Jinliang Yuan, Shangguang Wang, Hongyu Li, Daliang Xu, **Yuanchun Li**, Mengwei Xu, Xuanzhe Liu. "Towards Energy-efficient Federated Learning via INT8-based Training on Mobile DSPs". The Web Conference. **(WWW 2024, CCF-A)**
8. 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)**
9. Hao Wen, **Yuanchun Li\***, Guohong Liu, Shanhui Zhao, Tao Yu, Toby Jia-Jun Li, Shiqi Jiang, Yunhao Liu, Yaqin Zhang, Yunxin Liu. "AutoDroid: LLM-powered Task Automation in Android". In Proceedings of the 30th Annual International Conference On Mobile Computing And Networking. **(MobiCom 2024, CCF-A)**
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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