□812-558-6704 | I louqian@iu.edu | A qianlou.github.io | I qianlou

Education & Experience

Indiana University Bloomington

Bloomington, IN ASSOCAITE INSTRUCTOR Dec. 2019 - May 2020

· Working as an Associate Instructor in the course of machine leaning for siganl processing

Indiana University Bloomington Bloomington, IN MASTER OF COMPUTER ENGINEERING Aug. 2017 - Dec. 2019

· Working as a Research Assistant in the field of Privacy, Deep Learning and Computer Architecture

Shandong University Jinan, China

B.S. IN COMPUTER SCIENCE AND ENGINEERING

Overall GPA: 91.76/100: Rank: 4/300:

Mar. 2013 - Aug. 2017

Publications

[C10] Qian Lou, Bo Feng, Geoffrey C. Fox, and Lei Jiang "Glyph: Fast and Accurately Training Deep Neural Networks on Encrypted Data", Arxiv 2019

- [C9] Qian Lou, and Lei Jiang "MENDEL: Algorithm/Hardware Co-design for Accelerating Nanopore Genome Base-calling", Under review
- [C8] Qian Lou, Feng Guo, Kim Minje, Lantao Liu and Lei Jiang "AutoQ: Automated Kernel-Wise Network Quantization", International Conference on Learning Representations (ICLR 2020)
- [C7] Farzaneh Zokaee, Qian Lou, Nathan Youngblood, Weichen Liu, Yiyuan Xie and Lei Jiang "LightBulb: A Photonic-Nonvolatile-Memorybased Accelerator for Binarized Convolutional Neural Networks", IEEE/ACM Design, Automation & Test in Europe Conference & Exhibition (DATE 2020)
- [C6] Qian Lou, Wenyang Liu, Weichen Liu and Lei Jiang "MindReading: An Ultra Low-Power Nanophotonic Accelerator for EEG-based Intention Recognition", IEEE/ACM Asia and South Pacific Design Automation Conference (ASP-DAC 2020).
- [C5] Qian Lou, Lei Jiang "SHE:A fast and accurate deep neural networks for encrypted data", Thirty-third Conference on Neural Information Processing Systems (NeurIPS 2019).
- [C4] Qian Lou, Lei Jiang "Towards a fast and accurate deep neural networks for encrypted data", Thirty-sixth International Conference on Machine Learning (ICML 2019 workshop on privacy and security).
- [C3] Weichen Liu, Wenyang Liu, Yichen Ye, Qian Lou, Yiyuan Xie and Lei Jiang "Holylight: A Nanophotonic Accelerator for Deep Learning in Data Centers", IEEE/ACM Design, Automation & Test in Europe Conference & Exhibition (DATE 2019).
- [C2] Qian Lou, Wujie Wen, and Lei Jiang "3DICT: A Reliable and QoS Capable Mobile Process-In-Memory Architecture for Lookup-based CNNs in 3D XPoint ReRAMs", IEEE/ACM International Conference On Computer Aided Design (ICCAD 2018)
- [C1] Qian Lou, Mengying Zhao, Lei Ju, Chun Jason Xue, Jingtong Hu, Zhiping Jia "Runtime and reconfiguration dual-aware placement for SRAM-NVM hybrid FPGAs.", IEEE Non-Volatile Memory Systems and Applications Symposium (NVMSA 2017)
- [il] Qian Lou, and Lei Jiang "BRAWL: A Spintronics-Based Portable Basecalling-in-Memory Architecture for Nanopore Genome Sequencing", IEEE Computer Architecture Letters (CAL 2018)

Committee Services

| 2020 | ICML 2020 Reviewer, Thirty-seventh International Conference on Machine Learning (ICML 2020) | Australia |
|------|--------------------------------------------------------------------------------------------------|----------------------|
| 2019 | JETC Reviewer, ACM Journal on Emerging Technologies in Computing Systems (JETC 2019) | United States |
| 2018 | ASPDAC Sub-Reviewer, IEEE 23th Asia and South Pacific Design Automation Conference (ASPDAC 2018) | United States |

Honors & Awards ___

| 2019 | Travel Award, Thirty-third Conference on Neural Information Processing Systems (NeurIPS 2019) | Vancouver, Canada |
|------|------------------------------------------------------------------------------------------------------|-------------------|
| 2018 | Best paper nominee, 2018 International Conference On Computer Aided Design | San Diego, U.S.A |
| 2015 | Honorable award, The Mathematical Contest in Modeling | U.S.A |

Presentation

QIAN LOU · RÉSUMÉ **FEBRUARY 9, 2020**

36th International Conference on Machine Learning (ICML 2019 workshop on security and privacy)

Long Beach, United States

PRESENTER FOR OUR PAPER: SHE

June. 2019

• Introduced our fast and accurate deep neural networks on encrypted data

37th International Conference On Computer Aided Design (ICCAD 2018)

San Diego, United States

Presenter for our paper: 3DICT Nov. 2018

· Introduced 3DICT accelerating lookup-based convolutional neural networks using the emerging memory technology

ACM/IEEE International Symposium on Low Power Electronics and Design (ISLPED 2017)

Taipei, Taiwan

July. 2017

PRESENTER FOR A PAPER: XNOR-POP

• Introduced XNOR-POP accelerating binarized neural networks using the emerging memory technology

Extracurricular Activity

Student Union in Shandong University

Jinan, China

Jun. 2013 - Jun.2014

CORE MEMBER & PRESIDENT AT 2014

- Environment Evaluation Survey of Jinan city.
- Volunteer