FANGZHOU WANG

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RESEARCH INTERESTS

- Physical Design in VLSI CAD
- SAT with Applications in CAD
- VLSI Routing (Global Routing and Detailed Routing)

EDUCATION

The Chinese University of Hong Kong, NT, Hong Kong   Aug. 2019 – Present
Ph.D. Student, Department of Computer Science and Engineering.
Advisor: Prof. Evangeline F.Y. Young

City University of Hong Kong, Kowloon, Hong Kong   Aug. 2015 – Jul. 2019
B.S., Computer Science (First Class Honours).
(GPA 3.94/4.30, RANK 2/91)
Advisor: Prof. Hong Xu, Henry
Dissertation: "Faster Video Super-Resolution System"

Tsinghua University, Beijing, P. R. China   Sep. 2016 – Jan. 2017
Exchange Student, Department of Computer Science and Technology.

EXPERIENCE

City University of Hong Kong, Kowloon, Hong Kong   Sep. 2018 – Apr. 2019
Part-time Research Assistant, with Prof. Hong Xu, Henry
Topic: A deep learning-based video super-resolution system

City University of Hong Kong, Kowloon, Hong Kong   Jun. 2018 – Aug. 2018
Full-time Research Assistant, with Prof. Hong Xu, Henry
Topic: A scheduling mechanism between nodes in a distributed machine learning system

Hong Kong Exchanges and Clearing Limited, Sai Kung, Hong Kong   Aug. 2017 – May 2018
Assistant Analyst Programmer, Cash Satellite Systems Regular Team
Topic: Data processing and software testing

City University of Hong Kong, Kowloon, Hong Kong   Aug. 2016 – Dec. 2018
ACM-ICPC Team Member, Department of Computer Science
Topic: Data structures and algorithm design

PUBLICATIONS

Journal Papers

[J2] Bentian Jiang*, Jingsong Chen*, Jinwei Liu, Lixin Liu, **Fangzhou Wang**, Xiaopeng Zhang, Evangeline F.Y. Young, "CU.POKer: Placing DNNs on WSE with Optimal Kernel Sizing and Efficient Protocol Optimization", accepted by IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (**TCAD**).

[J1] Itai Feigenbaum, Minming Li, Jay Sethuraman, **Fangzhou Wang**, Shaokun Zou, "Strategic facility location problems with linear single-dipped and single-peaked preferences", Autonomous Agents and Multi-Agent Systems 34, no. 2 (2020): 1-47.

Conference Papers

[C3] **Fangzhou Wang**, Lixin Liu, Jingsong Chen, Jinwei Liu, Xinshi Zang, Martin D.F. Wong, "Starfish: An Efficient P&R Co-Optimization Engine with A*-based Partial Rerouting", The 40th IEEE/ACM International Conference on Computer-Aided Design (**ICCAD**), Munich, Germany, Nov 1 - 4, 2021.

[C2] Bentian Jiang*, Jingsong Chen*, Jinwei Liu, Lixin Liu, **Fangzhou Wang**, Xiaopeng Zhang, Evangeline F.Y. Young, "CU.POKer: Placing DNNs on Wafer-Scale AI Accelerator with Optimal Kernel Sizing", The 39th IEEE/ACM International Conference on Computer-Aided Design (**ICCAD**), San Diego, CA, USA, Nov. 2-5, 2020.

[C1] Jinwei Liu, Chak-Wa Pui, **Fangzhou Wang**, Evangeline F.Y. Young, "CUGR: Detailed-Routability-Driven 3D Global Routing with Probabilistic Resource Model", ACM/IEEE Design Automation Conference (**DAC**), San Francisco, July 19-23, 2020.

SELECTED AWARDS AND HONORS

The Hong Kong, China – Asia-Pacific Economic Cooperation Scholarship	HKSAR	2021
2nd Place Award in CAD Contest on Routing with Cell Movement Advanced	ICCAD	2021
1st Place Award in CAD Contest on Routing with Cell Movement (Leader)	ICCAD	2020
1st Place Award in CAD Contest on Wafer-Scale Deep Learning Accelerator Placement	ISPD	2020
DAC Young Fellow Award	DAC	2020
1st Place Award in CAD Contest on LEF/DEF Based Open-Source Global Router	ICCAD	2019
Full Postgraduate Studentship	CUHK	2019 – 2023
The Department of Computer Science Outstanding Student Scholarship	CityU	2019
The College of Engineering Dean's Scholarship (no more than 5 granted each year)	CityU	2019
HKSAR Government Scholarship Fund – Talent Development Scholarship	HKSAR	2019 – 2021
Bronze Medal in the ACM-ICPC Asia Regional Contest (Xuzhou)	ACM	2018
Silver Medal in the ACM-ICPC Chinese Collegiate Programming Contest	ACM	2018
CityU Full Tuition Entrance Scholarship	CityU	2015 – 2019
Dean's List (College of Engineering)	CityU	2015 – 2019

GRADUATE LEVEL COURSES

ENGG 5501: Foundations of Optimization
ENGG 5103: Data Mining
ENGG 5781: Matrix Analysis and Computations
IERG 5350: Reinforcement Learning
CSCI 5160: Approximation Algorithms
CSCI 5610: Advanced Data Structures

TECHNICAL SKILLS

Languages	C/C++, Python, LaTeX
Operating Systems	Linux/UNIX
Toolkits	PyTorch