Guojin Chen

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Education

Ph.D. in Computer Science, *The Chinese University of Hong Kong* 2021 – Present

M.S. in Computer Science, *The Chinese University of Hong Kong* 2019 – 2020

B.S. in Computer Science, *Huazhong University of Science and Technology* 2015 – 2019

Publications [Google Scholar; 45+ citations, h-index: 3+]

Representative publications that I am a primary author on are highlighted.

2023

[C9] *Physics-Informed Optical Kernel Regression Using Complex-valued Neural Fields*
Guojin Chen, Zehua Pei, Haoyu Yang, Yuzhe Ma, Bei Yu, and Martin Wong
DAC 2023

[C8] *DiffPattern: Layout Pattern Generation via Discrete Diffusion*
Zixiao Wang, Yunheng Shen, Wenqian Zhao, Yang Bai, **Guojin Chen**, Farzan Farnia, and Bei Yu
DAC 2023

[C7] *A GPU-accelerated Matrix Cover Algorithm for Multiple Patterning Layout Decomposition*
Guojin Chen, Haoyu Yang, and Bei Yu
SPIE 2023

2022

[C6] *Efficient Point Cloud Analysis Using Hilbert Curve.*
Wanli Chen, Xinge Zhu, **Guojin Chen**, and Bei Yu
ECCV 2022

[C5] *AdaOPC: A Self-Adaptive Mask Optimization Framework For Real Design Patterns*
Wenqian Zhao, Xufeng Yao, Ziyang Yu, **Guojin Chen**, Yuzhe Ma, Bei Yu, and Martin Wong
ICCAD 2022

2021

[C4] *DevelSet: Deep Neural Level Set for Instant Mask optimization*
Guojin Chen, Ziyang Yu, Hongduo Liu, Yuzhe Ma, and Bei Yu
ICCAD 2021

[C3] *Learning Point Clouds in EDA.* (Invited Paper)
Wei Li, **Guojin Chen**, Haoyu Yang, Ran Chen, and Bei Yu
ISPD 2021

2020

[C2] *DAMO: Deep Agile Mask Optimization for Full Chip Scale*
Guojin Chen, Wanli Chen, Yuzhe Ma, Haoyu Yang, and Bei Yu
ICCAD 2020

[C1] *A GPU-enabled Level Set Method for Mask Optimization*
Ziyang Yu, **Guojin Chen**, Yuzhe Ma, and Bei Yu
DATE 2020

Teaching

Python Computing (AIST 1110), TA	F2022
Mobile Computing (CSCI 3310), TA	S2022
Numerical Optimization (AIST 3010), TA	F2021

Skills

Programming	C, C++, CUDA, Python, CMake, Golang
Frameworks	JAX, NumPy, Pandas, PyTorch, SciPy
Toolbox	Linux, vim, evil, org, mu4e, xmonad, git, tmux, zsh