

# Guojin Chen

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## Publications [Google Scholar; 61+ citations, h-index: 4+]

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

*AlphaSyn: Logic Synthesis Optimization with Efficient Monte Carlo Tree Search*

[C12]

Zehua Pei, Fangzhou Liu, Zhuolun He, Guojin Chen, Haisheng Zheng, Keren Zhu, and Bei Yu  
ICCAD 2023

*Physics-Informed Optical Kernel Regression Using Complex-valued Neural Fields*

[C11]

Guojin Chen, Zehua Pei, Haoyu Yang, Yuzhe Ma, Bei Yu, and Martin Wong  
DAC 2023

*DiffPattern: Layout Pattern Generation via Discrete Diffusion*

[C10]

Zixiao Wang, Yunheng Shen, Wenqian Zhao, Yang Bai, Guojin Chen, Farzan Farnia, and Bei Yu  
DAC 2023

[C9] *GPU-accelerated Matrix Cover Algorithm for Multiple Patterning Layout Decomposition*

Guojin Chen, Haoyu Yang, and Bei Yu  
SPIE 2023

[C8] *OpenILT: An Open-source Platform for Inverse Lithography Technology Research*

Su Zheng, Yuzhe Ma, Binwu Zhu, Guojin Chen, Wenqian Zhao, Shuo Yin, Ziyang Yu, and Bei Yu  
GitHub 2023

[C7] *Efficient Point Cloud Analysis Using Hilbert Curve.*

Wanli Chen, Xinge Zhu, Guojin Chen, and Bei Yu  
ECCV 2022

[C6] *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

[C5] *LayouTransformer: Generating Layout Patterns with Transformer via Sequential Pattern Modeling*

Liangjian Wen, Yi Zhu, Lei Ye, Guojin Chen, Bei Yu, Jianzhuang Liu, and Chunjing Xu  
ICCAD 2022

[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

[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

## Professional Activities

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Design Automation Conference (DAC)	2023
AAAI Conference on Artificial Intelligence (AAAI)	2022
IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD)	2022-2023

Reviewing.....

## Teaching

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