

林亦波

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研究方向

面向超大规模集成电路设计自动化的建模和优化、深度学习及其应用、异构计算

教育经历

德克萨斯大学奥斯汀分校

2013 年 8 月 – 2018 年 5 月

博士学位, 电子与计算机工程系

指导老师: David Z. Pan

博士毕业论文: “Bridging Design and Manufacturing Gap through Machine Learning and Machine-Generated Layout”

(学积分 3.96/4.0)

上海交通大学

2009 年 9 月 – 2013 年 6 月

学士学位, 微电子学院

(学积分 91.17/100)

(排名 1/60)

工作经历

北京大学 (Peking University)

2019 年 7 月 – 现在

助理教授

集成电路学院设计自动化与计算系统系 (自 2021 年 11 月)

信息科学技术学院高能效计算与应用中心

德克萨斯大学奥斯汀分校 (UT Austin)

2018 年 6 月 – 2019 年 6 月

博后

授课经历

主讲 设计自动化与计算系统导论

研究生课, 2022 年秋

主讲 芯片设计自动化与智能优化

本科生课, 2021-2022 年春

主讲 计算概论 B

本科生课, 2020-2022 年秋

奖项及荣誉

最佳论文 (4/205)

DATE

2023 年

最佳论文 (4/249)

DATE

2022 年

最佳论文提名

ICCAD

2022 年

最佳论文 (2/3495, 4 年总和)

TCAD

2021 年

最佳论文

ISPD

2020 年

最佳论文提名	ASPDAC	2020 年
最佳论文 (1/201) & 提名 (5/201)	DAC	2019 年
最佳论文提名	ISPD	2019 年
首届最佳论文	Integration, the VLSI Journal	2018 年
Graduate Continuing Fellowship	德克萨斯大学奥斯汀分校	2017 年
Franco Cerrina Memorial 最佳学生论文	SPIE	2016 年
A. Richard Newton Young Student Fellow	DAC	2014 年
国家奖学金	上海交通大学	2012 年
三星奖学金	上海交通大学	2011 年
二等奖学金	上海交通大学	2010 年

学术服务

技术程序委员会成员

- ACM/IEEE Design Automation Conference (DAC): 2020.
- IEEE/ACM International Conference on Computer-Aided Design (ICCAD): 2018, 2019, 2020, 2021.
- IEEE International Conference on Computer Design (ICCD): 2019.
- IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC): 2021, 2022.
- ACM International Symposium on Physical Design (ISPD): 2020.
- ACM/IEEE Workshop on Machine Learning for CAD (MLCAD): 2021.
- Workshop on Synthesis And System Integration of Mixed Information technologies (SASIMI): 2021.
- IEEE Electron Devices Technology and Manufacturing Conference (EDTM): 2021.
- IEEE International Conference on Artificial Intelligence Circuits and Systems (AICAS): 2022.

期刊审稿人

- IEEE Transaction on Computer-Aided Design of Integrated Circuits and Systems (TCAD).
- IEEE Transactions on Computers (TC).
- ACM Transaction on Design Automation of Electronic Systems (TODAES).
- SPIE Journal of Micro/Nanolithography, MEMS, and MOEMS (JM3).
- Elsevier, Integration, the VLSI Journal (Integration).

期刊编辑

- ACM Transaction on Design Automation of Electronic Systems (TODAES) Special Issue on MLCAD, 2022.

执行委员会成员

- ACM/IEEE Workshop on Machine Learning for CAD (MLCAD) 2021, financial chair.

书籍章节

- [B3] **Yibo Lin**, Zizheng Guo and Jing Mai, “[Deep Learning Framework for Placement](#)”, Machine Learning Applications in Electronic Design Automation, Springer, 2023, edited by Haoxing Ren and Jiang Hu. (**Invited Book Chapter**)
- [B2] Haoyu Yang, **Yibo Lin** and Bei Yu, “[Machine Learning for Mask Synthesis and Verification](#)”, Machine Learning Applications in Electronic Design Automation, Springer, 2023, edited by Haoxing Ren and Jiang Hu. (**Invited Book Chapter**)
- [B1] **Yibo Lin** and David Z. Pan, “[Machine Learning in Physical Verification, Mask Synthesis, and Physical Design](#)”, Machine Learning in VLSI Computer-Aided Design, Springer, 2018, edited by Abe Elfedel, Duane Boning and Xin Li. (**Invited Book Chapter**)

期刊论文

- [J42] Peiyu Liao, Dawei Guo, Zizheng Guo, Siting Liu, Zhitang Chen, Wenlong Lv, **Yibo Lin** and Bei Yu, “[DREAMPlace 4.0: Timing-driven Placement with Momentum-based Net Weighting and Lagrangian-based Refinement](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), 2023. (accepted)
- [J41] Zuodong Zhang, Zizheng Guo, **Yibo Lin**, Runsheng Wang and Ru Huang, “[AVATAR: An Aging- and Variation-Aware Dynamic Timing Analyzer for Error-Efficient Computing](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), 2023. (accepted)
- [J40] Binwu Zhu, Xinyun Zhang, **Yibo Lin**, Bei Yu and Martin Wong, “DRC-SG 2.0: Efficient Design Rule Checking Script Generation via Key Information Extraction”, ACM Transactions on Design Automation of Electronic Systems (TODAES), 2023. (accepted)
- [J39] Guannan Guo, Tsung-Wei Huang, **Yibo Lin**, Zizheng Guo, Sushma Yellapragada and Martin Wong, “[A GPU-accelerated Framework for Path-based Timing Analysis](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), 2023. (accepted)
- [J38] Zizheng Guo, Tsung-Wei Huang and **Yibo Lin**, “[Accelerating Static Timing Analysis using CPU-GPU Heterogeneous Parallelism](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), 2023. (accepted)
- [J37] **Yibo Lin**, Avi Ziv and Haoxing Ren, “[Introduction to the Special Issue on Machine Learning for CAD/EDA](#)”, ACM Transactions on Design Automation of Electronic Systems (TODAES), Mar, 2023.
- [J36] Xinfa Zhang, Zuodong Zhang, **Yibo Lin**, Zhigang Ji, Runsheng Wang and Ru Huang, “[Efficient Aging-Aware Standard Cell Library Characterization Based on Sensitivity Analysis](#)”, IEEE Transactions on Circuits and Systems II: Express Briefs, Oct, 2022.
- [J35] Siting Liu, Yuan Pu, Peiyu Liao, Hongzhong Wu, Rui Zhang, Zhitang Chen, Wenlong Lv, **Yibo Lin** and Bei Yu, “[FastGR : Global Routing on CPU-GPU with Heterogeneous Task Graph Scheduler](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Oct, 2022. (accepted)

- [J34] Zhuomin Chai, Yuxiang Zhao, **Yibo Lin**, Wei Liu, Runsheng Wang and Ru Huang, “[CircuitNet: An Open-Source Dataset for Machine Learning Applications in Electronic Design Automation \(EDA\)](#)”, SCIENCE CHINA Information Sciences, Sep, 2022. (accepted)
- [J33] Xiaohan Gao, Haoyi Zhang, Mingjie Liu, Linxiao Shen, David Z. Pan, **Yibo Lin**, Runsheng Wang and Ru Huang, “[Interactive Analog Layout Editing with Instant Placement and Routing Legalization](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Jul, 2022. (accepted)
- [J32] Wei Li, Jialu Xia, Yuzhe Ma, Jialu Li, **Yibo Lin** and Bei Yu, “[Adaptive Layout Decomposition with Graph Embedding Neural Networks](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Jan, 2022. (accepted)
- [J31] Zizheng Guo, Mingwei Yang, Tsung-Wei Huang and **Yibo Lin**, “[A Provably Good and Practically Efficient Algorithm for Common Path Pessimism Removal in Large Designs](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Nov, 2021. (accepted)
- [J30] Martin Rapp, Hussam Amrouch, **Yibo Lin**, Bei Yu, David Z. Pan, Marilyn Wolf and Jörg Henkel, “[MLCAD: A Survey of Research in Machine Learning for CAD](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Nov, 2021. (accepted)
- [J29] **Yibo Lin**, Tong Qu, Zongqing Lu, Yajuan Su and Yayi Wei, “[Asynchronous Reinforcement Learning Framework and Knowledge Transfer for Net Order Exploration in Detailed Routing](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Oct, 2021.
- [J28] Tsung-Wei Huang, Dian-Lun Lin, Chun-Xun Lin and **Yibo Lin**, “[Taskflow: A Lightweight Parallel and Heterogeneous Task Graph Computing System](#)”, IEEE Transactions on Parallel and Distributed Systems (TPDS), Aug, 2021.
- [J27] Yibai Meng, Wuxi Li, **Yibo Lin** and David Z. Pan, “[elfPlace: Electrostatics-based Placement for Large-Scale Heterogeneous FPGAs](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Jan, 2021.
- [J26] Wei Li, Yuzhe Ma, Qi Sun, Zhang Lu, **Yibo Lin**, Iris Hui-Ru Jiang, Bei Yu and David Z. Pan, “[OpenMPL: An Open Source Layout Decomposer](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Dec, 2020.
- [J25] Tsung-Wei Huang, **Yibo Lin**, Chun-Xun Lin, Guannan Guo and Martin Wong, “[Cpp-Taskflow: A General-purpose Parallel Task Programming System at Scale](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Sep, 2020.
- [J24] Hao Chen, Mingjie Liu, Biying Xu, Keren Zhu, Xiyuan Tang, Shaolan Li, **Yibo Lin**, Nan Sun and David Z. Pan, “[MAGICAL: An Open-Source Fully Automated Analog IC Layout System from Netlist to GDSII](#)”, IEEE Design & Test, Sep, 2020.
- [J23] Jing Chen, Mohamed Baker Alawieh, **Yibo Lin**, Maolin Zhang, Jun Zhang, Yufeng Guo and David Z. Pan, “[Automatic Selection of Structure Parameters of Silicon on Insulator Lateral Power Device Using Bayesian Optimization](#)”, IEEE Electron Device Letters (EDL), Aug, 2020.

- [J22] Ying Chen, **Yibo Lin**, Rui Chen, Lisong Dong, Ruixuan Wu, Tianyang Gai, Le Ma, Yajuan Su and Yayi Wei, “[EUV Multilayer Defect Characterization via Cycle-Consistent Learning](#)”, Optics Express, Jun, 2020.
- [J21] **Yibo Lin**, Zixuan Jiang, Jiaqi Gu, Wuxi Li, Shounak Dhar, Haoxing Ren, Brucek Khailany and David Z. Pan, “[DREAMPlace: Deep Learning Toolkit-Enabled GPU Acceleration for Modern VLSI Placement](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Jun, 2020. (**Best Paper Award**)
- [J20] Junzhe Cai, Changhao Yan, Yudong Tao, **Yibo Lin**, Sheng-Guo Wang, David Z. Pan and Xuan Zeng, “[A Novel and Unified Full-chip CMP Model Aware Dummy Fill Insertion Framework with SQP-Based Optimization Method](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Jun, 2020.
- [J19] Mohamed Baker Alawieh, **Yibo Lin**, Zaiwei Zhang, Meng Li, Qixing Huang and David Z. Pan, “[GAN-SRAF: Sub-Resolution Assist Feature Generation using Generative Adversarial Networks](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), May, 2020.
- [J18] **Yibo Lin**, Wuxi Li, Jiaqi Gu, Haoxing Ren, Brucek Khailany and David Z. Pan, “[ABCDPlace: Accelerated Batch-based Concurrent Detailed Placement on Multi-threaded CPUs and GPUs](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Feb, 2020.
- [J17] Jing Chen, Mohamed Baker Alawieh, **Yibo Lin**, Maolin Zhang, Jun Zhang, Yufeng Guo and David Z. Pan, “[Powernet: SOI Lateral Power Device Breakdown Prediction With Deep Neural Networks](#)”, IEEE Access, Feb, 2020.
- [J16] Ying Chen, **Yibo Lin**, Lisong Dong, Tianyang Gai, Rui Chen, Yajuan Su, Yayi Wei and David Z. Pan, “[SoulNet: Ultrafast Optical Source Optimization Utilizing Generative Neural Networks for Advanced Lithography](#)”, Journal of Micro/Nanolithography, MEMS, and MOEMS (JM3), Nov, 2019.
- [J15] **Yibo Lin**, Meng Li, Yuki Watanabe, Taiki Kimura, Tetsuaki Matsunawa, Shigeki Nojima and David Z. Pan, “[Data Efficient Lithography Modeling with Transfer Learning and Active Data Selection](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Oct, 2019.
- [J14] Ying Chen, **Yibo Lin**, Tianyang Gai, Yajuan Su, Yayi Wei and David Z. Pan, “[Semi-Supervised Hotspot Detection with Self-Paced Multi-Task Learning](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Apr, 2019.
- [J13] Jing Chen, **Yibo Lin**, Yufeng Guo, Maolin Zhang, Mohamed Baker Alawieh and David Z. Pan, “[Lithography Hotspot Detection Using a Double Inception Module Architecture](#)”, Journal of Micro/Nanolithography, MEMS, and MOEMS (JM3), Mar, 2019.
- [J12] **Yibo Lin**, Bei Yu, Meng Li and David Z. Pan, “[Layout Synthesis for Topological Quantum Circuits with 1D and 2D Architectures](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Aug, 2018.

- [J11] Meng Li, Bei Yu, **Yibo Lin**, Xiaoqing Xu, Wuxi Li and David Z Pan, “[A practical split manufacturing framework for trojan prevention via simultaneous wire lifting and cell insertion](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Jul, 2018.
- [J10] Xiaoqing Xu, **Yibo Lin**, Meng Li, Tetsuaki Matsunawa, Shigeki Nojima, Chikaaki Kodama, Toshiya Kotani and David Z. Pan, “[Subresolution Assist Feature Generation With Supervised Data Learning](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Jun, 2018.
- [J9] **Yibo Lin**, Bei Yu, Xiaoqing Xu, Jhih-Rong Gao, Natarajan Viswanathan, Wen-Hao Liu, Zhuo Li, Charles J Alpert and David Z. Pan, “[MrDP: Multiple-row detailed placement of heterogeneous-sized cells for advanced nodes](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Jun, 2018.
- [J8] Wuxi Li, **Yibo Lin**, Meng Li, Shounak Dhar and David Z. Pan, “[UTPlaceF 2.0: A High-Performance Clock-Aware FPGA Placement Engine](#)”, ACM Transactions on Design Automation of Electronic Systems (TODAES), Jun, 2018.
- [J7] **Yibo Lin**, Bei Yu and David Z. Pan, “[High performance dummy fill insertion with coupling and uniformity constraints](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Sep, 2017.
- [J6] **Yibo Lin**, Bei Yu, Biying Xu and David Z. Pan, “[Triple patterning aware detailed placement toward zero cross-row middle-of-line conflict](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Jul, 2017.
- [J5] Xiaoqing Xu, **Yibo Lin**, Meng Li, Jiaojiao Ou, B. Cline and D. Z. Pan, “[Redundant local-Loop insertion for unidirectional routing](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Jul, 2017.
- [J4] **Yibo Lin**, Bei Yu, Yi Zou, Zhuo Li, Charles J Alpert and David Z. Pan, “[Stitch aware detailed placement for multiple e-beam lithography](#)”, Integration, the VLSI Journal, Jun, 2017. (**Best Paper Award**)
- [J3] **Yibo Lin**, Xiaoqing Xu, Bei Yu, Ross Baldick and David Z. Pan, “[Triple/quadruple patterning layout decomposition via linear programming and iterative rounding](#)”, Journal of Micro/Nanolithography, MEMS, and MOEMS (JM3), Jun, 2017.
- [J2] Bei Yu, Xiaoqing Xu, Subhendu Roy, **Yibo Lin**, Jiaojiao Ou and David Z. Pan, “[Design for manufacturability and reliability in extreme-scaling VLSI](#)”, Science China Information Sciences, May, 2016. (**Invited paper**)
- [J1] Bei Yu, Xiaoqing Xu, Jhih-Rong Gao, **Yibo Lin**, Zhuo Li, Charles Alpert and David Z. Pan, “[Methodology for standard cell compliance and detailed placement for triple patterning lithography](#)”, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), May, 2015.

会议论文

- [C80] Zizheng Guo, Zuodong Zhang, Xun Jiang, Wuxi Li, **Yibo Lin**, Runsheng Wang and Ru Huang,

“General-Purpose Gate-Level Simulation with Partition-Agnostic Parallelism”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jul 9-13, 2023.

- [C79] Qipan Wang, Ping Liu, Liguang Jiang, Mingjie Liu, **Yibo Lin**, Runsheng Wang and Ru Huang, “MTL-Designer: An Integrated Flow for Analysis and Synthesis of Microstrip Transmission Line”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jul 9-13, 2023.
- [C78] Peiyu Liao, Hongduo Liu, **Yibo Lin**, Bei Yu and Martin Wong, “On a Moreau Envelope Wirelength Model for Analytical Global Placement”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jul 9-13, 2023.
- [C77] Siting Liu, Ziyi Wang, Fangzhou Liu, **Yibo Lin**, Bei Yu and Martin Wong, “Concurrent Sign-off Timing Optimization via Deep Steiner Points Refinement”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jul 9-13, 2023.
- [C76] Su Zheng, Lancheng Zou, Siting Liu, **Yibo Lin**, Bei Yu and Martin Wong, “Mitigating Distribution Shift for Congestion Optimization in Global Placement”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jul 9-13, 2023.
- [C75] Yu Zhang, Yifan Chen, Zhonglin Xie, Hong Xu, Zaiwen Wen, **Yibo Lin** and Bei Yu, “LRSDP: Low-Rank SDP for Triple Patterning Lithography Layout Decomposition”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jul 9-13, 2023.
- [C74] Yuxiang Zhao, Zhuomin Chai, **Yibo Lin**, Runsheng Wang and Ru Huang, “[HybridNet: Dual-Branch Fusion of Geometrical and Topological Views for VLSI Congestion Prediction](#)”, IEEE/ACM International Symposium of EDA (ISED), Nanjing, China, May 8-11, 2023.
- [C73] Haoyi Zhang, Xiaohan Gao, Haoyang Luo, Jiahao Song, Xiyuan Tang, Junhua Liu, **Yibo Lin**, Runsheng Wang and Ru Huang, “SAGERoute: Synergistic Analog Routing Considering Geometric and Electrical Constraints with Manual Design Compatibility”, IEEE/ACM Proceedings Design, Automation and Test in Europe (DATE), Antwerp, Belgium, Apr 17-19, 2023. (**Best Paper Award**)
- [C72] Yifan Chen, Jing Mai, Xiaohan Gao, Muhan Zhang and **Yibo Lin**, “[MacroRank: Ranking Macro Placement Solutions Leveraging Translation Equivariancy](#)”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Tokyo, Japan, Jan 16-19, 2023.
- [C71] Jiarui Wang, Jing Mai, Zhixiong Di and **Yibo Lin**, “[A Robust FPGA Router with Concurrent Intra-CLB Rerouting](#)”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Tokyo, Japan, Jan 16-19, 2023.
- [C70] Junchi Yan, Xianglong Lyu, Ruoyu Cheng and **Yibo Lin**, “Towards Machine Learning for Placement and Routing in Chip Design: a Methodological Overview”, arXiv preprint, 2022.
- [C69] Zizheng Guo, Feng Gu and **Yibo Lin**, “[GPU-Accelerated Rectilinear Steiner Tree Generation](#)”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), San Diego, CA, Nov 01-03, 2022.
- [C68] Qipan Wang, Xiaohan Gao, **Yibo Lin**, Runsheng Wang and Ru Huang, “[DeePEB: A Neural Partial Differential Equation Solver for Post Exposure Baking Simulation in Lithography](#)”,

IEEE/ACM International Conference on Computer-Aided Design (ICCAD), San Diego, CA, Nov 01-03, 2022. (**Best Paper Nomination**)

- [C67] **Yibo Lin**, Xiaohan Gao, Haoyi Zhang, Runsheng Wang and Ru Huang, “[Intelligent and Interactive Analog Layout Design Automation](#)”, IEEE International Conference on Solid-State and Integrated Circuit Technology (ICSICT), Nanjing, China, Oct 25-28, 2022. (**Invited paper**)
- [C66] Binwu Zhu, Xinyun Zhang, **Yibo Lin**, Bei Yu and Martin Wong, “[Efficient Design Rule Checking Script Generation via Key Information Extraction](#)”, ACM/IEEE Workshop on Machine Learning for CAD (MLCAD), Snowbird, Utah, Sep 12-13, 2022.
- [C65] Jing Mai, Yibai Meng, Zhixiong Di and **Yibo Lin**, “[Multi-Electrostatic FPGA Placement Considering SLICEL-SLICEM Heterogeneity and Clock Feasibility](#)”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jul 10-14, 2022.
- [C64] Zizheng Guo and **Yibo Lin**, “[Differentiable-Timing-Driven Global Placement](#)”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jul 10-14, 2022.
- [C63] Zizheng Guo, Mingjie Liu, Jiaqi Gu, Shuhan Zhang, David Z. Pan and **Yibo Lin**, “[A Timing Engine Inspired Graph Neural Network Model for Pre-Routing Slack Prediction](#)”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jul 10-14, 2022.
- [C62] Zuodong Zhang, Zizheng Guo, **Yibo Lin**, Runsheng Wang and Ru Huang, “[AVATAR: An Aging- and Variation-Aware Dynamic Timing Analyzer for Application-based DVAFS](#)”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jul 10-14, 2022.
- [C61] Bowen Wang, Guibao Shen, Dong Li, Jianye Hao, Wulong Liu, Yu Huang, Hongzhong Wu, **Yibo Lin**, Guangyong Chen and Pheng Ann Heng, “LHNN: Lattice Hypergraph Neural Network for VLSI Congestion Prediction”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jul 10-14, 2022.
- [C60] Zuodong Zhang, Zizheng Guo, **Yibo Lin**, Runsheng Wang and Ru Huang, “[EventTimer: Fast and Accurate Event-Based Dynamic Timing Analysis](#)”, IEEE/ACM Proceedings Design, Automation and Test in Europe (DATE), Antwerp, Belgium, Mar 14-23, 2022.
- [C59] Siting Liu, Peiyu Liao, Zhitang Chen, Wenlong Lv, **Yibo Lin** and Bei Yu, “[FastGR: Global Routing on CPU-GPU with Heterogeneous Task Graph Scheduler](#)”, IEEE/ACM Proceedings Design, Automation and Test in Europe (DATE), Antwerp, Belgium, Mar 14-23, 2022. (**Best Paper Award**)
- [C58] Peiyu Liao, Siting Liu, Zhitang Chen, Wenlong Lv, **Yibo Lin** and Bei Yu, “[DREAMPlace 4.0: Timing-driven Global Placement with Momentum-based Net Weighting](#)”, IEEE/ACM Proceedings Design, Automation and Test in Europe (DATE), Antwerp, Belgium, Mar 14-23, 2022.
- [C57] Haoyu Yang, Kit Fung, Yuxuan Zhao, **Yibo Lin** and Bei Yu, “[Mixed-Cell-Height Legalization on CPU-GPU Heterogeneous Systems](#)”, IEEE/ACM Proceedings Design, Automation and Test in Europe (DATE), Antwerp, Belgium, Mar 14-23, 2022.
- [C56] Xun Jiang, **Yibo Lin** and Zhongfeng Wang, “[FPGA-Accelerated Maze Routing Kernel for VLSI Designs](#)”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Virtual Conference, Jan 17-20, 2022.

- [C55] Kexing Zhou, Zizheng Guo, Tsung-Wei Huang and **Yibo Lin**, “[Efficient Critical Paths Search Algorithm using Mergeable Heap](#)”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Virtual Conference, Jan 17-20, 2022.
- [C54] Zizheng Guo, Tsung-Wei Huang and **Yibo Lin**, “[A Provably Good and Practically Efficient Algorithm for Common Path Pessimism Removal in Large Designs](#)”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Dec 05-09, 2021.
- [C53] Guannan Guo, Tsung-Wei Huang, **Yibo Lin** and Martin Wong, “[GPU-accelerated Path-based Timing Analysis](#)”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Dec 05-09, 2021.
- [C52] Zizheng Guo, Jing Mai and **Yibo Lin**, “[Ultrafast CPU/GPU Kernels for Density Accumulation in Placement](#)”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Dec 05-09, 2021.
- [C51] Xiaohan Gao, Mingjie Liu, David Z. Pan and **Yibo Lin**, “[Interactive Analog Layout Editing with Instant Placement Legalization](#)”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Dec 05-09, 2021.
- [C50] Zizheng Guo, Tsung-Wei Huang and **Yibo Lin**, “[HeteroCPPR: Accelerating Common Path Pessimism Removal with Heterogeneous CPU-GPU Parallelism](#)”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Virtual Conference, Nov 01-04, 2021.
- [C49] Guannan Guo, Tsung-Wei Huang, **Yibo Lin** and Martin Wong, “[GPU-accelerated Critical Path Generation with Path Constraints](#)”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Virtual Conference, Nov 01-04, 2021.
- [C48] Tong Qu, **Yibo Lin**, Tianyang Gai, Xiaojing Su, Shuhan Wang, Bojie Ma, Yajuan Su and Yayi Wei, “[Litho-Aware Redundant Local-Loop Insertion Framework With Convolutional Neural Network](#)”, Proceedings of SPIE, San Jose, CA, Sep 27, 2021.
- [C47] Tong Qu, **Yibo Lin**, Zongqing Lu, Yajuan Su and Yayi Wei, “[Asynchronous Reinforcement Learning Framework for Net Order Exploration in Detailed Routing](#)”, IEEE/ACM Proceedings Design, Automation and Test in Europe (DATE), Virtual Conference, Feb 01-05, 2021.
- [C46] Siting Liu, Qi Sun, Peiyu Liao, **Yibo Lin** and Bei Yu, “[Global Placement with Deep Learning-Enabled Explicit Routability Optimization](#)”, IEEE/ACM Proceedings Design, Automation and Test in Europe (DATE), Virtual Conference, Feb 01-05, 2021.
- [C45] Hongjia Li, Mengshu Sun, Tianyun Zhang, Olivia Chen, Nobuyuki Yoshikawa, Bei Yu, Yanzhi Wang and **Yibo Lin**, “[Towards AQFP-Capable Physical Design Automation](#)”, IEEE/ACM Proceedings Design, Automation and Test in Europe (DATE), Virtual Conference, Feb 01-05, 2021.
- [C44] Xiaohan Gao, Chenhui Deng, Mingjie Liu, Zhiru Zhang, David Z. Pan and **Yibo Lin**, “[Layout Symmetry Annotation for Analog Circuits with Graph Neural Networks](#)”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Tokyo, Japan, Jan 18-21, 2021.
- [C43] **Yibo Lin**, “[Deep Learning for Mask Synthesis and Verification: A Survey](#)”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Tokyo, Japan, Jan 18-21, 2021. (Invited paper)

- [C42] Jiaqi Gu, Zixuan Jiang, **Yibo Lin** and David Z. Pan, “[DREAMPlace 3.0: Multi-Electrostatics Based Robust VLSI Placement with Region Constraints](#)”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Nov 2-5, 2020.
- [C41] Zizheng Guo, Tsung-Wei Huang and **Yibo Lin**, “[GPU-Accelerated Static Timing Analysis](#)”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Nov 2-5, 2020.
- [C40] **Yibo Lin**, “[GPU Acceleration in VLSI Back-end Design: Overview and Case Studies](#)”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Nov 2-5, 2020. (**Invited tutorial**)
- [C39] Wei Ye, Mohamed Baker Alawieh, Yuki Watanabe, Shigeki Nojima, **Yibo Lin** and David Z. Pan, “[TEMPO: Fast Mask Topography Effect Modeling with Deep Learning](#)”, ACM International Symposium on Physical Design (ISPD), Taipei, Taiwan, Sep 20-23, 2020. (**Best Paper Award**)
- [C38] Wei Li, Jialu Xia, Yuzhe Ma, Jialu Li, **Yibo Lin** and Bei Yu, “[Adaptive Layout Decomposition with Graph Embedding Neural Networks](#)”, ACM/IEEE Design Automation Conference (DAC), San Francisco, Jul 19-23, 2020.
- [C37] **Yibo Lin**, David Z. Pan, Haoxing Ren and Brucek Khailany, “DREAMPlace 2.0: Open-Source GPU-Accelerated Global and Detailed Placement for Large-Scale VLSI Designs”, China Semiconductor Technology International Conference (CSTIC), Shanghai, China, Jun, 2020. (**Invited paper**)
- [C36] Rachel Selina Rajarathnam, **Yibo Lin**, Yier Jin and David Z. Pan, “[ReGDS: A Reverse Engineering Framework from GDSII to Gate-level Netlist](#)”, IEEE International Workshop on Hardware-Oriented Security and Trust (HOST), San Jose, CA, May 4, 2020.
- [C35] Mingjie Liu, Wuxi Li, Keren Zhu, Biying Xu, **Yibo Lin**, Linxiao Shen, Xiyuan Tang, Nan Sun and David Z. Pan, “S3DET: Detecting System Symmetry Constraints for Analog Circuits with Graph Similarity”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Jan 13-16, 2020. (**Best Paper Nomination**)
- [C34] Mohamed Baker Alawieh, Wuxi Li, **Yibo Lin**, Love Singhal, Mahesh Iyer and David Z. Pan, “High-Definition Routing Congestion Prediction for Large-Scale FPGAs”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Jan 13-16, 2020.
- [C33] Wuxi Li, **Yibo Lin** and David Z. Pan, “[elfPlace: Electrostatics-based Placement for Large-Scale Heterogeneous FPGAs](#)”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Westminster, CO, Nov 4-7, 2019.
- [C32] Keren Zhu, Mingjie Liu, **Yibo Lin**, Biying Xu, Shaolan Li, Xiyuan Tang, Nan Sun and David Z. Pan, “[GeniusRoute: A New Analog Routing Paradigm Using Generative Neural Network Guidance](#)”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Westminster, CO, Nov 4-7, 2019.
- [C31] Chengyue Gong, Zixuan Jiang, Dilin Wang, **Yibo Lin**, Qiang Liu and David Z. Pan, “[Mixed Precision Neural Architecture Search for Energy Efficient Deep Learning](#)”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Westminster, CO, Nov 4-7, 2019.

- [C30] Biying Xu, Keren Zhu, Mingjie Liu, **Yibo Lin**, Shaolan Li, Xiyuan Tang, Nan Sun and David Z. Pan, “[MAGICAL: Toward Fully Automated Analog IC Layout Leveraging Human and Machine Intelligence](#)”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Westminster, CO, Nov 4-7, 2019. (**Invited paper**)
- [C29] Wei Li, Yuzhe Ma, Qi Sun, **Yibo Lin**, Iris Hui-Ru Jiang, Bei Yu and David Z Pan, “[OpenMPL: An Open Source Layout Decomposer](#)”, International Conference on ASIC (ASICON), Chongqing, China, Oct, 2019. (**Invited paper**)
- [C28] **Yibo Lin**, Shounak Dhar, Wuxi Li, Haoxing Ren, Brucek Khailany and David Z. Pan, “[DREAM-Place: Deep Learning Toolkit-Enabled GPU Acceleration for Modern VLSI Placement](#)”, ACM/IEEE Design Automation Conference (DAC), Las Vegas, NV, Jun 2-6, 2019. (**Best Paper Award**)
- [C27] Wei Ye, Mohamed Baker Alawieh, **Yibo Lin** and David Z. Pan, “[LithoGAN: End-to-End Lithography Modeling with Generative Adversarial Networks](#)”, ACM/IEEE Design Automation Conference (DAC), Las Vegas, NV, Jun 2-6, 2019. (**Best Paper Nomination**)
- [C26] Biying Xu, **Yibo Lin**, Xiyuan Tang, Shaolan Li, Linxiao Shen, Nan Sun and David Z. Pan, “[WellGAN: Generative-Adversarial-Network-Guided Well Generation for Analog/Mixed-Signal Circuit Layout](#)”, ACM/IEEE Design Automation Conference (DAC), Las Vegas, NV, Jun 2-6, 2019.
- [C25] Mohamed Baker Alawieh, **Yibo Lin**, Zaiwei Zhang, Meng Li, Qixing Huang and David Z. Pan, “[GAN-SRAF: Sub-Resolution Assist Feature Generation Using Conditional Generative Adversarial Networks](#)”, ACM/IEEE Design Automation Conference (DAC), Las Vegas, NV, Jun 2-6, 2019.
- [C24] **Yibo Lin**, Zhao Song and Lin F. Yang, “[Towards a Theoretical Understanding of Hashing-Based Neural Nets](#)”, International Conference on Artificial Intelligence and Statistics (AISTATS), Okinawa, Japan, Apr 16-18, 2019.
- [C23] Biying Xu, Shaolan Li, Chak-Wa Pui, Derong Liu, Linxiao Shen, **Yibo Lin**, Nan Sun and David Z. Pan, “[Device Layer-Aware Analytical Placement for Analog Circuits](#)”, ACM International Symposium on Physical Design (ISPD), San Francisco, CA, Apr 14-17, 2019. (**Best Paper Nomination**)
- [C22] Wei Ye, Mohamed Baker Alawieh, Meng Li, **Yibo Lin** and David Z. Pan, “[Litho-GPA: Gaussian Process Assurance for Lithography Hotspot Detection](#)”, IEEE/ACM Proceedings Design, Automation and Test in Europe (DATE), Florence, Italy, Mar 25-29, 2019.
- [C21] Ying Chen, **Yibo Lin**, Tianyang Gai, Yajuan Su, Yayi Wei and David Z. Pan, “[Semi-Supervised Hotspot Detection with Self-Paced Multi-Task Learning](#)”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Tokyo, Japan, Jan 21-24, 2019.
- [C20] Wei Ye, Mohamed Baker Alawieh, **Yibo Lin** and David Z. Pan, “[Tackling Signal Electromigration with Learning-Based Detection and Multistage Mitigation](#)”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Tokyo, Japan, Jan 21-24, 2019.
- [C19] Wei Ye, **Yibo Lin**, Meng Li, Qiang Liu and David Z. Pan, “[LithoROC: Lithography Hotspot Detection with Explicit ROC Optimization](#)”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Tokyo, Japan, Jan 21-24, 2019. (**Invited paper**)

- [C18] **Yibo Lin**, Mohamed Baker Alawieh, Wei Ye and David Z. Pan, “[Machine Learning for Yield Learning and Optimization](#)”, IEEE International Test Conference (ITC), Phoenix, Arizona, Oct, 2018. (Invited paper)
- [C17] Jiong Zhang, **Yibo Lin**, Zhao Song and Inderjit S Dhillon, “[Learning Long Term Dependencies via Fourier Recurrent Units](#)”, International Conference on Machine Learning (ICML), Stockholm, Sweden, Jun 10-15, 2018.
- [C16] **Yibo Lin**, Yuki Watanabe, Taiki Kimura, Tetsuaki Matsunawa, Shigeki Nojima, Meng Li and David Z. Pan, “[Data Efficient Lithography Modeling with Residual Neural Networks and Transfer Learning](#)”, ACM International Symposium on Physical Design (ISPD), Monterey, CA, Mar 25-28, 2018.
- [C15] Meng Li, Bei Yu, **Yibo Lin**, Xiaoqing Xu, Wuxi Li and David Z. Pan, “[A Practical Split Manufacturing Framework for Trojan Prevention via Simultaneous Wire Lifting and Cell Insertion](#)”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Jeju, Korea, Jan 22-25, 2018.
- [C14] Che-Lun Hsu, Shaofeng Guo, **Yibo Lin**, Xiaoqing Xu, Meng Li, Runsheng Wang, Ru Huang and David Z Pan, “[Layout-dependent aging mitigation for critical path timing](#)”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Jeju, Korea, Jan 22-25, 2018.
- [C13] **Yibo Lin**, Peter Debacker, Darko Trivkovic, Ryoung-han Kim, Praveen Raghavan and David Z. Pan, “[Patterning Aware Design Optimization of Selective Etching in N5 and Beyond](#)”, IEEE International Conference on Computer Design (ICCD), Boston, MA, Nov 5-8, 2017.
- [C12] **Yibo Lin**, Xiaoqing Xu, Jiaojiao Ou and David Z Pan, “[Machine learning for mask/wafer hotspot detection and mask synthesis](#)”, Photomask Technology, Oct 16, 2017. (Invited paper)
- [C11] Wei Ye, **Yibo Lin**, Xiaoqing Xu, Wuxi Li, Yiwei Fu, Yongsheng Sun, Canhui Zhan and David Z. Pan, “[Placement Mitigation Techniques for Power Grid Electromigration](#)”, IEEE International Symposium on Low Power Electronics and Design (ISLPED), Taipei, Jul 24-26, 2017.
- [C10] Xiaoqing Xu, **Yibo Lin**, Vinicius Livramento and David Z. Pan, “[Concurrent Pin Access Optimization for Unidirectional Routing](#)”, ACM/IEEE Design Automation Conference (DAC), Austin, TX, Jun 18-22, 2017.
- [C9] Jiaojiao Ou, Bei Yu, Xiaoqing Xu, Joydeep Mitra, **Yibo Lin** and David Z. Pan, “[DSAR: DSA aware routing with simultaneous DSA guiding pattern and double patterning assignment](#)”, ACM International Symposium on Physical Design (ISPD), Portland, OR, Mar 19-22, 2017.
- [C8] **Yibo Lin**, Bei Yu, Xiaoqing Xu, Jih-Rong Gao, Natarajan Viswanathan, Wen-Hao Liu, Zhuo Li, Charles J Alpert and David Z. Pan, “[MrDP: Multiple-row detailed placement of heterogeneous-sized cells for advanced nodes](#)”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Austin, TX, Nov 7-10, 2016.
- [C7] Yudong Tao, Changhao Yan, **Yibo Lin**, Sheng-Guo Wang, David Z. Pan and Xuan Zeng, “[A novel unified dummy fill insertion framework with SQP-based optimization method](#)”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Austin, TX, Nov 7-10, 2016.

- [C6] **Yibo Lin**, Bei Yu and David Z. Pan, “[Detailed placement in advanced technology nodes: a survey](#)”, IEEE International Conference on Solid-State and Integrated Circuit Technology (ICSICT), Hangzhou, China, Oct 25-28, 2016. (**Invited paper**)
- [C5] **Yibo Lin**, Xiaoqing Xu, Bei Yu, Ross Baldick and David Z. Pan, “[Triple/quadruple patterning layout decomposition via novel linear programming and iterative rounding](#)”, Proceedings of SPIE, San Jose, CA, Feb 21-25, 2016. (**Best Student Paper Award**)
- [C4] **Yibo Lin**, Bei Yu, Yi Zou, Zhuo Li, Charles J Alpert and David Z. Pan, “[Stitch aware detailed placement for multiple e-beam lithography](#)”, IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Macau, China, Jan 25-28, 2016.
- [C3] **Yibo Lin**, Bei Yu, Biying Xu and David Z. Pan, “[Triple patterning aware detailed placement toward zero cross-row middle-of-line conflict](#)”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Austin, TX, Nov 2-6, 2015.
- [C2] **Yibo Lin**, Bei Yu and David Z. Pan, “[High performance dummy fill insertion with coupling and uniformity constraints](#)”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jun 7-11, 2015.
- [C1] David Z. Pan, Lars Liebmann, Bei Yu, Xiaoqing Xu and **Yibo Lin**, “[Pushing multiple patterning in sub-10nm: are we ready?](#)”, ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jun 7-11, 2015. (**Invited Paper**)

专利

- [P10] **林亦波**, 郭资政, “一种可微分时序驱动的芯片布局优化方法”, Chinese Patent, CN202210793017.1, Aug 29, 2022. (submitted)
- [P9] **林亦波**, 张昊懿, 高笑涵, 王润声, 黄如, “一种用于模拟电路版图布线的交互式编辑方法及工具”, Chinese Patent, CN202210036319.4, May 23, 2022. (submitted)
- [P8] **林亦波**, 麦景, “基于多电场模型的时钟驱动 FPGA 芯片全局布局方法”, Chinese Patent, CN202210205894.2, Apr 12, 2022.
- [P7] **林亦波**, 张作栋, 郭资政, 王润声, 黄如, “一种老化及涨落感知的动态时序分析方法”, Chinese Patent, CN202111541466.9, Apr 5, 2022. (submitted)
- [P6] **林亦波**, 郭资政, 黄琮蔚, “一种 GPU 加速计算的集成电路无悲观路径分析方法”, Chinese Patent, CN202111070324.9, Dec 24, 2021. (submitted)
- [P5] **林亦波**, 张作栋, 郭资政, 王润声, 黄如, “一种基于事件传播的动态时序分析方法”, Chinese Patent, CN202110993095.1, Dec 24, 2021. (submitted)
- [P4] 麦景, 郭资政, **林亦波**, “一种集成电路设计中器件密度分布的计算方法”, Chinese Patent, CN202110550648.6, Aug 27, 2021. (submitted)
- [P3] 高笑涵, **林亦波**, 刘鸣杰, 潘志刚, “一种交互式模拟电路版图编辑方法及系统”, Chinese Patent, CN202110174716.3, Jun 18, 2021. (submitted)
- [P2] 郭资政, **林亦波**, 黄琮蔚, “一种集成电路静态时序分析中的路径分析算法”, Chinese Patent, CN202110377250.7, May 20, 2021. (submitted)

- [P1] 郭资政, 黄琮蔚, **林亦波**, “一种 GPU 加速计算的集成电路静态时序分析方法”, Chinese Patent, CN202011143632.5, Jan 22, 2021.

特邀报告

国际会议特邀报告

- [T6] "Timing Analysis and Optimization on Heterogeneous CPU-GPU Platforms", in International Workshop on Logic & Synthesis (IWLS), Virtual, Jul 18-21, 2022.
- [T5] "DREAMPlace: Deep Learning Toolkit-Enabled GPU Acceleration for Modern VLSI Placement", in ACM/IEEE Design Automation WebiNar (DAWN), Virtual, Apr 11-12, 2022.
- [T4] "DREAMPlace 3.X: Exploring Advanced Constraints and Multi-GPU Acceleration", in China Semiconductor Technology International Conference (CSTIC), Shanghai, China, Mar 14-15, 2021.
- [T3] "Deep Learning for Mask Synthesis and Verification: A Survey", in IEEE/ACM Asia and South Pacific Design Automation Conference (ASPDAC), Tokyo, Japan, Jan 18-21, 2021.
- [T2] "GPU Acceleration in VLSI Back-end Design: Overview and Case Studies", in IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Virtual, Nov 2-5, 2020.
- [T1] "DREAMPlace 2.0: Open-Source GPU-Accelerated Global and Detailed Placement for Large-Scale VLSI Designs", in China Semiconductor Technology International Conference (CSTIC), Shanghai, China, Jun 26, 2020.

国内会议特邀报告

- [T7] "A Timing Engine Inspired Graph Neural Network Model for Pre-Routing Slack Prediction", CCF Chip 芯片大会, 南京, Jul 29-31, 2022.
- [T6] "Exploring AI-assisted Optimization Opportunities in Placement and Routing", 华为 Strategy and Technology Workshop (STW), 深圳, Oct 14-16, 2021.
- [T5] "A Provably Good and Practically Efficient Algorithm for Common Path Pessimism Removal in Static Timing Analysis", ChinaDA, 北京, Jul 10-11, 2021.
- [T4] "深度学习辅助布局布线优化", 中国计算机协会青年精英大会 (CCF-YEF), 沈阳, May 15, 2021.
- [T3] "DREAMPlace 3.0: Multi-Electrostatics Based Robust VLSI Placement with Region Constraints", 东湖论坛, 武汉, Nov 28, 2020.
- [T2] "先进工艺下 AI 辅助芯片后端设计与制造", 中国计算机协会集成电路设计与自动化学术会议 (CCF-DAC), 线上, Aug 10-11, 2020.
- [T1] "基于机器学习的集成电路后端设计及加速", 华为海思与高校技术论坛, 北京, Nov 28, 2019.