YIBO LIN

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RESEARCH INTERESTS

Modeling and optimization in VLSI CAD, machine learning applications, and heterogeneous computing

EDUCATION

University of Texas at Austin, TX, USA

Aug. 2013 - May 2018

Ph.D., Department of Electrical and Computer Engineering

Advisor: David Z. Pan

Dissertation: "Bridging Design and Manufacturing Gap through Machine Learning and Machine-Generated

Layout"

Shanghai Jiao Tong University, Shanghai, P.R.China

Sep. 2009 - Jun. 2013

B.S., Department of Microelectronics

EXPERIENCE

Peking University, Beijing, China

Jul. 2019 - present

Assistant Professor

Department of Design Automation and Computing System,

School of Integrated Circuits (since Nov. 2021)

Center for Energy-efficient Computing and Applications (CECA),

School of EECS

University of Texas at Austin, Texas, U.S.

Jun. 2018 - Jun. 2019

Postdoc

ECE Department

TEACHING EXPERIENCE

Instructor	Introduction to Design Automation and Computing System	Graduate, Fall 2022
Instructor	Optimization and Machine Learning in VLSI Design Automation	Undergraduate, Spring 2021-2022
Instructor	Introduction to Computing B	Undergraduate, Fall 2020-2022

AWARDS AND HONORS

Inaugural Best Reviewer Award	ICCAD	2023
Best Paper Award $(4/205)$	DATE	2023
Best Paper Award $(4/249)$	DATE	2022
Best Paper Award Nomination	ICCAD	2022

Donald O. Pederson Best Paper Award $(2/3495 \text{ in 4 years})$ TCAD		
Best Paper Award	ISPD	2020
Best Paper Award Nomination	ASPDAC	2020
Best Paper Award $(1/201)$ & Nomination $(5/201)$	DAC	2019
Best Paper Award Nomination	ISPD	2019
Inaugural Best Paper Award	Integration, the VLSI Journal	2018
Graduate Continuing Fellowship	University of Texas at Austin	2017
Franco Cerrina Memorial Best Student Paper Award	SPIE	2016
A. Richard Newton Young Student Fellow	DAC	2014
National Scholarship	Shanghai Jiao Tong University	2012
Samsung Scholarship	Shanghai Jiao Tong University	2011
The Second Prize Scholarship	Shanghai Jiao Tong University	2010

PROFESSIONAL SERVICE

TPC Member

- ACM/IEEE Design Automation Conference (DAC): 2020.
- IEEE/ACM International Conference on Computer-Aided Design (ICCAD): 2018, 2019, 2020, 2021, 2023.
- 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.
- ACM Great Lakes Symposium on VLSI (GLVLSI): 2024.
- 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.

Journal Reviewer

- 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)

Journal Editor

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

EC Member

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

PUBLICATIONS

Book Chapters

- [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)

Journal Papers

- [J51] 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.
- [J50] Zuodong Zhang, Zizheng Guo, Yibo Lin, Runsheng Wang and Ru Huang, "AVATAR: An Agingand Variation-Aware Dynamic Timing Analyzer for Error-Efficient Computing", IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), 2023.
- [J49] 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.
- [J48] 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.
- [J47] 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.
- [J46] Zhuomin Chai, Yuxiang Zhao, Wei Liu, Yibo Lin, Runsheng Wang and Ru Huang, "Circuit-Net: An Open-Source Dataset for Machine Learning in VLSI CAD Applications with Improved Domain-Specific Evaluation Metric and Learning Strategies", IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), 2023.
- [J45] Jing Mai, Jiarui Wang, Zhixiong Di and **Yibo Lin**, "Multi-Electrostatic FPGA Placement Considering SLICEL-SLICEM Heterogeneity, Clock Feasibility, and Timing Optimization", IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), 2023.
- [J44] Yufei Chen, Zizheng Guo, Runsheng Wang, Ru Huang, Yibo Lin and Cheng Zhuo, "Dynamic Supply Noise Aware Timing Analysis With JIT Machine Learning Integration", IEEE Transactions

- on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Dec, 2023. (accepted)
- [J43] Zhixiong Di, Runzhe Tao, Jing Mai, Lin Chen and Yibo Lin, "LEAPS: Topological-Layout-Adaptable Multi-Die FPGA Placement for Super Long Line Minimization", IEEE Transactions on Circuits and Systems I, Dec, 2023.
- [J42] Peiyu Liao, Yuxuan Zhao, Dawei Guo, Yibo Lin and Bei Yu, "Analytical Die-to-Die 3D Placement With Bistratal Wirelength Model and GPU Acceleration", IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (TCAD), Dec, 2023. (accepted)
- [J41] Xiaohan Gao, Haoyi Zhang, Siyuan Ye, Mingjie Liu, David Z. Pan, Linxiao Shen, Runsheng Wang, Yibo Lin and Ru Huang, "Post-Layout Simulation Driven Analog Circuit Sizing", SCI-ENCE CHINA Information Sciences, Oct, 2023.
- [J40] 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.
- [J39] 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.
- [J38] 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.
- [J37] 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.
- [J36] 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.
- [J35] 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.
- [J34] Yibo Lin, "模拟电路版图自动化与智能设计", 中国计算机学会通讯, Dec, 2021.
- [J33] 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.
- [J32] 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. (**Invited Keynote paper**)

- [J31] 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.
- [J30] 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.
- [J29] Yibo Lin, Xiaohan Gao, Tinghuan Chen and Bei Yu, "机器学习辅助数字集成电路后端设计方法", 微纳电子与智能制造, Feb, 2021.
- [J28] Cheng Zhuo, Zizheng Guo, Xiao Dong, Qing He and **Yibo Lin**, "先进工艺下的数字签核", 微纳电子与智能制造, Feb, 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.

Conference Papers

- [C103] Tsung-Yi Ho, Sadaf Khan, Jinwei Liu, Yi Liu, Zhengyuan Shi, Ziyi Wang, Qiang Xu, Evangeline F.Y. Young, Bei Yu, Ziyang Zheng, Binwu Zhu, Keren Zhu, Yiqi Che, Yun Liang, **Yibo Lin**, Guojie Luo, Guangyu Sun, Runsheng Wang, Xinming Wei, Chenhao Xue, Haoyi Zhang, Zuodong Zhang, Yuxiang Zhao, Sunan Zou, Lei Chen, Yu Huang, Min Li, Dimitrios Tsaras, Mingxuan Yuan, Hui-Ling Zhen, Zhufei Chu, Wenji Fang, Xingquan Li and Zhiyao Xie, "The Dawn of AI-Native EDA: Promises and Challenges of Large Circuit Models", arXiv preprint, 2024.
- [C102] Jiarui Wang, Xun Jiang and Yibo Lin, "Top-Level Routing for Multiply-Instantiated Blocks with Topology Hashing", ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jun, 2024.
- [C101] Yufan Du, Zizheng Guo, Xun Jiang, Zhuomin Chai, Yuxiang Zhao, Yibo Lin, Runsheng Wang and Ru Huang, "PowPrediCT: Cross-Stage Power Prediction with Circuit-Transformation-Aware Learning", ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jun, 2024.
- [C100] Haoyi Zhang, Jiahao Song, Xiaohan Gao, Xiyuan Tang, **Yibo Lin**, Runsheng Wang and Ru Huang, "EasyACIM: An End-to-End Automated Analog CIM with Synthesizable Architecture

- and Agile Design Space Exploration", ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jun, 2024.
- [C99] Zichen Kong, Xiyuan Tang, Wei Shi, Yiheng Du, **Yibo Lin** and Yuan Wang, "PVTSizing: A TuRBO-RL-Based Batch-Sampling Optimization Framework for PVT-Robust Analog Circuit Synthesis", ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jun, 2024.
- [C98] Yuan Pu, Fangzhou Liu, Yu Zhang, Zhuolun He, Kai-Yuan Chao, Yibo Lin and Bei Yu, "Lesyn: Placement-aware Logic Resynthesis for Non-Integer Multiple-Cell-Height Designs", ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jun, 2024.
- [C97] Wan Luan Lee, Dian-Lun Lin, Tsung-Wei Huang, Shui Jiang, Tsung-Yi Ho, Yibo Lin and Bei Yu, "G-kway: Multilevel GPU-Accelerated k-way Graph Partitioner", ACM/IEEE Design Automation Conference (DAC), San Francisco, CA, Jun, 2024.
- [C96] Xiaohan Gao, Haoyi Zhang, Zhu Pan, Yibo Lin, Runsheng Wang and Ru Huang, "Migrating Standard Cells for Multiple Drive Strengths by Routing Imitation", IEEE/ACM International Symposium of EDA (ISEDA), Xi'an, China, May 10-13, 2024.
- [C95] Qipan Wang, Tianxiang Zhu, Yibo Lin, Runsheng Wang and Ru Huang, "ATSim3D: Towards Accurate Thermal Simulator for Heterogeneous 3D IC Systems Considering Nonlinear Leakage and Conductivity", IEEE/ACM International Symposium of EDA (ISEDA), Xi'an, China, May 10-13, 2024.
- [C94] Jing Mai, Jiarui Wang, Yifan Chen, Zizheng Guo, Xun Jiang, Yun Liang and Yibo Lin, "Open-PARF 3.0: Robust Multi-Electrostatics Based FPGA Macro Placement Considering Cascaded Macros Groups and Fence Regions", IEEE/ACM International Symposium of EDA (ISEDA), Xi'an, China, May 10-13, 2024.
- [C93] Xun Jiang, Zhuomin Chai, Yuxiang Zhao, Yibo Lin, Runsheng Wang and Ru Huang, "Circuit-Net 2.0: An Advanced Dataset for Promoting Machine Learning Innovations in Realistic Chip Design Environment", International Conference on Learning Representations (ICLR), Vienna, Austria, May 7-11, 2024.
- [C92] Zizheng Guo, Tsung-Wei Huang, Jin Zhuo, Cheng Zhuo, Yibo Lin, Runsheng Wang and Ru Huang, "Heterogeneous Static Timing Analysis with Advanced Delay Calculator", IEEE/ACM Proceedings Design, Automation and Test in Eurpoe (DATE), Valencia, Spain, Mar 24-28, 2024.
- [C91] Haoyi Zhang, Xiaohan Gao, Zilong Shen, Jiahao Song, Xiaoxu Cheng, Xiyuan Tang, Yibo Lin, Runsheng Wang and Ru Huang, "SAGERoute 2.0: Hierarchical Analog and Mixed Signal Routing Considering Versatile Routing Scenarios", IEEE/ACM Proceedings Design, Automation and Test in Eurpoe (DATE), Valencia, Spain, Mar 24-28, 2024.
- [C90] Yuan Pu, Tinghuan Chen, Zhuolun He, Chen Bai, Haisheng Zheng, Yibo Lin and Bei Yu, "IncreMacro: Incremental Macro Placement Refinement", ACM International Symposium on Physical Design (ISPD), Taipei, Mar 12-15, 2024. (Best Paper Nomination)
- [C89] Yu Zhang, Yuan Pu, Fangzhou Liu, Peiyu Liao, Kaiyuan Chao, Keren Zhu, **Yibo Lin** and Bei Yu, "Multi-Electrostatics Based Placement for Non-Integer Multiple-Height Cells", ACM International Symposium on Physical Design (ISPD), Taipei, Mar 12-15, 2024.

- [C88] Siting Liu, Jiaxi Jiang, Zhuolun He, Ziyi Wang, **Yibo Lin** and Bei Yu, "Routing-aware Legal Hybrid Bonding Terminal Assignment for 3D Face-to-Face Stacked ICs", ACM International Symposium on Physical Design (ISPD), Taipei, Mar 12-15, 2024.
- [C87] Cheng-Hsiang Chiu, Zhicheng Xiong, Zizheng Guo, Tsung-Wei Huang and Yibo Lin, "An Efficient Task-parallel Pipeline Programming Framework", International Conference on High-Performance Computing in Asia-Pacific Region (HPC Asia), Nagoya, Japan, Jan, 2024. (accepted)
- [C86] Jing Mai, Jiaru Wang, Zhixiong Di, Guojie Luo, Yun Liang and **Yibo Lin**, "OpenPARF: An Open-Source Placement and Routing Framework for Large-Scale Heterogeneous FPGAs with Deep Learning Toolkit", International Conference on ASIC (ASICON), Nanjing, China, Oct, 2023. (Invited paper)
- [C85] Yifan Chen, Zaiwen Wen, Yun Liang and Yibo Lin, "Stronger Mixed-Size Placement Backbone Considering Second-Order Information", IEEE/ACM International Conference on Computer-Aided Design (ICCAD), San Francisco, CA, Oct, 2023.
- [C84] Xun Jiang, Zizheng Guo, Zhuomin Chai, Yuxiang Zhao, Yibo Lin, Runsheng Wang and Ru Huang, "Accelerating Routability and Timing Optimization with Open-Source AI4EDA Dataset CircuitNet and Heterogeneous Platforms", IEEE/ACM International Conference on Computer-Aided Design (ICCAD), San Francisco, CA, Oct, 2023. (Invited paper)
- [C83] Kexing Zhou, Yun Liang, Yibo Lin, Runsheng Wang and Ru Huang, "Khronos: Fusing Memory Access for Improved Hardware RTL Simulation", IEEE/ACM International Symposium on Microarchitecture (MICRO), Toronto, Canada, Oct, 2023.
- [C82] 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.
- [C81] Qipan Wang, Ping Liu, Ligguo 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.
- [C80] 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.
- [C79] 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.
- [C78] 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.
- [C77] 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.

- [C76] 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 (ISEDA), Nanjing, China, May 8-11, 2023.
- [C75] Haoyi Zhang, Xiaohan Gao, Yibo Lin, Runsheng Wang and Ru Huang, "Multi-Scenario Analog and Mixed-Signal Circuit Routing with Agile Human Interaction", IEEE/ACM International Symposium of EDA (ISEDA), Nanjing, China, May 8-11, 2023.
- [C74] 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 Eurpoe (DATE), Antwerp, Belgium, Apr 17-19, 2023. (Best Paper Award)
- [C73] Zuodong Zhang, Meng Li, Yibo Lin, Runsheng Wang and Ru Huang, "READ: Reliability-Enhanced Accelerator Dataflow Optimization using Critical Input Pattern Reduction", IEEE/ACM Proceedings Design, Automation and Test in Europe (DATE), Antwerp, Belgium, Apr 17-19, 2023.
- [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.

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- [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 Eurpoe (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 Eurpoe (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 Eurpoe (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.
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- [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.
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- [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

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- [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 (AS-PDAC), 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, "Well-GAN: 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 Euroee (DATE), Florence, Italy, Mar 25-29, 2019.
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- [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, 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/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

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- [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)