

林亦波

助理教授 ◇ 高效计算与应用中心 ◇ 信息科学技术学院

理科 5 号楼, 100871 ◇ 北京大学

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研究方向

针对于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、硬件加速、硬件安全

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

信息科学技术学院高效计算与应用中心

德克萨斯大学奥斯汀分校 (UT Austin)

2018 年 6 月 - 2019 年 6 月

博后

日本东芝存储 (Toshiba Memory)

2017 年 5 月 - 2017 年 8 月

实习

Memory lithography group

比利时微电子研究中心 (IMEC)

2016 年 9 月 - 2016 年 11 月

实习

Design technology co-optimization for emerging lithography options

香港中文大学 (CUHK)

2016 年 6 月 - 2016 年 8 月

实习

Quantum computing

铿腾半导体 (Cadence)

2015 年 5 月 - 2015 年 8 月

实习

Routability driven detailed placement

授课经历

主讲	计算概论	2020 年秋
客座讲座	EE382M: VLSI CAD & Optimizations	2018 年秋
客座讲座	EE382M: VLSI Physical Design Automation	2017 年秋
研究生课程助教	EE382M: VLSI I	2014 年秋

奖项及荣誉

最佳论文	ISPD	2020 年
最佳论文提名	ASPDAC	2020 年
最佳论文 (×1) & 提名 (×1)	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

服务

国际会议技术程序委员会委员: ICCAD 2018, ICCAD 2019, ICCD 2019, ISPD 2020, DAC 2020, ICCAD 2020

技能

编程语言

C/C++, Python, Verilog

网页制作

HTML5, JavaScript/jQuery

设计自动化工具

Cadence Virtuoso, Synopsys Design Compiler, Synopsys IC Compiler

相关课程

• EE382M: VLSI I	<i>Prof. Michael Orshansky</i>
• EE382N: Computer Architecture	<i>Prof. Aater Suleman</i>
• EE382V: Optimization Issues in VLSI CAD	<i>Prof. David Pan</i>
• EE382M: VLSI II	<i>Prof. Jacob Abraham</i>
• EE380L: Engineer Programming Languages	<i>Prof. Craig Chase</i>

- EE382V: Nanometer Scale IC Design *Prof. Michael Orshansky*
- EE382V: VLSI Physical Design Automation *Prof. David Pan*
- EE381V: Advanced Algorithms *Prof. Evdokia Nikolova*
- EE382V: Advanced Programming Tools *Prof. Aziz Adnan*
- EE380N: Optimization in Engineering Systems *Prof. Ross Baldick*
- CS383C: Numerical Analysis: Linear Algebra *Prof. Robert van de Geijn*

出版物

书籍章节

- [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

- [J23] **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), 2020. (accepted)
- [J22] 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, Dec, 2020.
- [J21] 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), 2020. (accepted)
- [J20] 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, 2020.
- [J19] **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), 2020. (accepted)
- [J18] 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), 2020. (accepted)
- [J17] 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), 2020. (accepted)

- [J16] 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), 2019.
- [J15] 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), 2019.
- [J14] 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.
- [J13] **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.
- [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, 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

- [C40] Jiaqi Gu, Zixuan Jiang, **Yibo Lin** and David Z. Pan, “Multi-Electrostatics Based Robust VLSI Placement with Region Constraints”, IEEE/ACM International Conference on Computer-Aided Design (ICCAD), Nov 2-5, 2020. (accepted)
- [C39] 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. (accepted)
- [C38] 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**)
- [C37] 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. (accepted)
- [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. (accepted)
- [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, 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 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**)