

HAOCHENG LI

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Shatin, Hong Kong



PUBLICATIONS

Conference Proceedings

- Li, Haocheng, Gengjie Chen, Bentian Jiang, Jingsong Chen, and Evangeline FY Young (2019). "Dr. CUE: A Scalable Detailed Routing Framework with Correct-by-Construction Design Rule Satisfaction". In: *Proc. ICCAD*. IEEE.
- Li, Haocheng, Satwik Patnaik, Abhrajit Sengupta, Haoyu Yang, Knechtel Johann, Bei Yu, Evangeline FY Young, and Ozgur Sinanoglu (2019). "Attacking Split Manufacturing from a Deep Learning Perspective". In: *Proc. DAC*. CCF Rank A. IEEE.
- Chen, Gengjie, Chak-Wa Pui, Haocheng Li, Jingsong Chen, Bentian Jiang, and Evangeline FY Young (2019). "Detailed routing by sparse grid graph and minimum-area-captured path search". In: *Proc. ASPDAC*. ACM, pp. 754–760.
- Li, Haocheng, Wing-Kai Chow, Gengjie Chen, Evangeline FY Young, and Bei Yu (2018). "Routability-driven and fence-aware legalization for mixed-cell-height circuits". In: *Proc. DAC*. CCF Rank A. IEEE.
- Pui, Chak-Wa, Peishan Tu, Haocheng Li, Gengjie Chen, and Evangeline FY Young (2018). "A Two-Step Search Engine For Large Scale Boolean Matching Under NP3 Equivalence". In: *Proc. ASPDAC*.
- Zhang, Hang, Fengyuan Zhu, Haocheng Li, Evangeline FY Young, and Bei Yu (2017). "Bilinear Lithography Hotspot Detection". In: *Proc. ISPD*. Best Paper Award. ACM, pp. 7–14.

Journal Articles

- Chen, Gengjie, Chak-Wa Pui, Haocheng Li, and Evangeline FY Young (2019). "Dr. CU: Detailed Routing by Sparse Grid Graph and Minimum-Area-Captured Path Search". In: *IEEE TCAD*. CCF Rank A.
- Li, Haocheng, Wei Hong, Yu Liu, and Xuanqin Mou (2017). "A novel method of micro-tomography geometric angle calibration with random phantom". In: *Journal of X-Ray Science and Technology* 25.4.

AWARDS

First Place in Initial Detailed Routing

CAD Contest at ISPD

2019

San Francisco, CA

First Place in Non-exact Projective NPNP Boolean Matching

CAD Contest at ICCAD

2016

Austin, TX

National Scholarship

Ministry of Education of the People's Republic of China

2013

Xi'an, China

EXPERIENCE

Software Engineering Intern

Cadence Design Systems

May 2018 – Sep 2018

Austin, TX

Technology Summer Analyst

Morgan Stanley

July 2015 – Sep 2015

Shanghai, China

EDUCATION

Ph.D. in Computer Sci. & Erg.

The Chinese University of Hong Kong

2016 – 2020

Shatin, Hong Kong

B.Eng. in Information Engineering

Xi'an Jiaotong University

2012 – 2016

Xi'an, China

Honors Youth Program

Xi'an Jiaotong University

2010 – 2012

Suzhou, China

COURSES & TEACHING

Online Algo. for ML & Optimization

EDA for Physical Design of Digital System

Techniques for Data Mining

Practical Computational Geometry Algo.

Foundations of Optimization

Hardware for Human Machine Interface

CAD for VLSI Circuits

Introduction to Operating Systems

Introduction to Engineering Design

Introduction to Discrete Math & Algo.

LANGUAGES

Mandarin

English

Cantonese



REFEREES

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