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PUBLICATIONS

Conference Proceedings

- Li, Haocheng, Gengjie Chen, Bentian Jiang, Jingsong Chen, and Evangeline FY Young (2019). "Dr. CU 2.0: 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*. 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*. 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*.
- 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 Engineer 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

Practical Computational Geometry Algo.

Foundations of Optimization

Techniques for Data Mining

Hardware for Human Machine Interface

CAD for VLSI Circuits

Introduction to Discrete Math & Algo.

Introduction to Operating Systems

Introduction to Engineering Design

LANGUAGES

Mandarin

English

Cantonese



REFEREES

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