

Pingcheng DONG (Prof. Tim CHENG group)

- AI Chip



Education History

- › **PhD in Electronic and Computer Engineering**
2022-present, The Hong Kong University of Science and Technology, Hong Kong
- › **BEng in Microelectronics Science and Engineering**
2018-2022, Southern University of Science and Technology, Shen Zhen

Research Topics

- › Stereo Vision Coprocessor
- › AI Chip Design
- › Image Signal Processor
- › Hardware and Software Co-design
- › System-on-chip

Main Publications

- › Configurable Image Rectification and Disparity Refinement for Stereo Vision, TCAS-II, 2022
- › A 4.29 nJ/pixel stereo depth coprocessor with pixel level pipeline and region optimized semi-global matching for IoT application, TCAS-I, 2021
- › A 139 fps pixel-level pipelined binocular stereo vision accelerator with region-optimized semi-global matching, A-SSCC 2021

Hobbies

- › Basketball
- › Swimming
- › Traveling
- › Fitness