Huajian HUANG

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• https://huajianup.github.io

Education

Ph.D. in Computer Science and Engineering

Department of Computer Science and Engineering
The Hong Kong University of Science and Technology

Supervisor: Prof. Sai-Kit Yeung

Bachelor in Telecommunication Engineering

School of Electronics and Information Technology

Sun Yat-Sen University

August 2019 – 2023 (Expected) Hong Kong, China

> August 2014 – June 2018 GuangZhou, China

Research Interest

Omnidirectional Perception, Computer Vision, Robotics, Localization and Mapping, 3D Reconstruction, Neural Rendering

Projects and Publications

360VOT: A New Benchmark Dataset for Omnidirectional Visual Object Tracking

Huajian Huang, Yinzhe Xu, Yingshu Chen and Sai-Kit Yeung International Conference on Computer Vision (ICCV), 2023

Real-Time Omnidirectional Roaming in Large Scale Indoor Scenes

Huajian Huang, Yingshu Chen, Tianjia Zhang and Sai-Kit Yeung SIGGRAPH Asia Technical Communications. 2022

360ST-Mapping: An Online Semantics-Guided Topological Mapping Module for Omnidirectional Visual SLAM

Hongji Liu, <u>Huajian Huang</u>, Sai-Kit Yeung and Ming Liu International Conference on Intelligent Robots and Systems (IROS), 2022

360VO: Visual Odometry Using A Single 360 Camera

Huajian Huang and Sai-Kit Yeung

International Conference on Robotics and Automation (ICRA), 2022

SiamX: An Efficient Long-term Tracker Using Cross-level Feature Correlation and Adaptive Tracking Scheme

Huajian Huang and Sai-Kit Yeung

International Conference on Robotics and Automation (ICRA), 2022

Dual-SLAM: A framework for robust single camera navigation

Huajian Huang, Wen-Yan Lin, Siying Liu, Dong Zhang and Sai-Kit Yeung International Conference on Intelligent Robots and Systems (IROS), 2020

Professional Activities

Review: TOG, SIGGRAPH, SIGGRAPH Asia, ICCV, CVPR, ICRA, and IROS

Research Experience

University of Southern California

Visiting scholar

Institute for Creative Technologies, Vision & Graphics Lab

Advisor: Yajie Zhao

(A*STAR) Agency for Science, Technology and Research

OVERSEAS-Foreign Student Attachment

Centre for Frontier AI Research Advisor: Ivor Tsang and Yaxin Shi

ADSC/Illinois at Singapore Pte Ltd

Research Intern

Advisor: Wen-Yan Lin

unuary 2023 – March 2023

April 2023 – Present

Los Angeles, USA

January 2023 – March 2023

Singapore

2017 - 2018

Singapore

Teaching Experience

Teaching Assistant

The Hong Kong University of Science and Technology

• COMP 1021 Introduction to Computer Science

• COMP 2012 Object-Oriented Programming and Data Structures

• COMP 4431 Multimedia Computing

• ISDN 2300 Digital Design

• ISDN 5300 Advanced Digital Design

Fall 2020, Spring 2021

Fall 2021

Spring 2020

Fall 2020

Spring 2022