

YICHAO CAI

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LG.25.04, AIML Building, Lot 14, Cnr North Terrace & Frome Road, Adelaide SA 5000

EDUCATION

PhD, The University of Adelaide

Major: Computer Science

Supervisors: Prof. Javen Qinfeng Shi, Dr. Zhen Zhang, Dr. Yuhang Liu

2023 - Present

Adelaide, Australia

M.S. in Engineering, Wuhan University of Technology

Major: Instrument Science and Technology, GPA 90/100

Supervisor: Prof. Zhou Xiao

2016 - 2019

Wuhan, China

B.Eng., Wuhan University of Technology

Major: Measurement and Control Technology & Instruments

2012 - 2016

Wuhan, China

EXPERIENCE

Algorithm Engineer

Autocity (Shenzhen) Autonomous Driving

2023 - 2023

Shenzhen, China

Algorithm Engineer

Tellhow Sci-Tech Co., Ltd

2020 - 2022

Nanchang, China

Software Engineer

Huawei Technologies Co., Ltd

2019 - 2020

Dongguan, China

Visiting Student

California PATH, University of California, Berkeley

May - Oct., 2018

Richmond, USA

HONORS & AWARDS

The Award for Outstanding Graduates, issued by Wuhan University of Technology, 2019

The Award for Merit Graduate Students, issued by Wuhan University of Technology, 2017

RESEARCH INTERESTS

Causal Representation Learning, Machine Learning, Computer Vision

LANGUAGES

Chinese (native proficiency): Capable of reading, writing, speaking, and conducting peer reviews.

English: Proficient in reading, writing, speaking, and conducting peer reviews.

PUBLICATIONS

Journals

Yichao Cai*, Dachuan Li*, Xiao Zhou and Xingang Mou, “Robust Drivable Road Region Detection for Fixed-Route Autonomous Vehicles Using Map-Fusion Images”, *Sensors*, 2018, 18(12): 4158. (* Equal contribution)

Conferences

Yichao Cai, Kejun Ou, Dachuan Li, Yuanfang Zhang, Xiao Zhou and Xingang Mou. “Robust Real-Time Curb Detection for Autonomous Sanitation Vehicles”, *2023 IEEE International Conference on Unmanned Systems (ICUS)*. IEEE, 2023.

Yichao Cai, Xiao Zhou, Dachuan Li, Yifei Ming and Xingang Mou, “**Head Pose Estimation with Neural Networks from Surveillant Images**”, *Eleventh International Conference on Machine Vision (ICMV 2018)*. Vol. 11041. SPIE, 2019.

Xingang Mou, Conglin Leng, Xiao Zhou and **Yichao Cai**, “**State Recognition of Electric Control Cabinet Switches Based on CNNs**”, *2018 IEEE 3rd International Conference on Image, Vision and Computing (ICIVC)*. IEEE, 2018.

Preprints

Yichao Cai, Yuhang Liu, Zhen Zhang and Javen Qinfeng Shi, “**CLAP: Isolating Content from Style through Contrastive Learning with Augmented Prompts**”, *arXiv preprint arXiv:2311.16445 (2023)*.

REFERENCES

References available upon request.