

YICHAO CAI

(Email) caiyichao3@gmail.com || (Tel.) + 61 (0)478927202
LG.25.04, AIML Building, Lot 14, North Terrace, Adelaide SA 5000

EDUCATION

PhD, The University of Adelaide Major: Computer Science Supervisors: Prof. Javen Qinfeng Shi, Dr. Zhen Zhang, Dr. Yuhang Liu	<i>2023 - Present</i> <i>Adelaide, Australia</i>
M.S. in Engineering, Wuhan University of Technology Major: Instrument Science and Technology, GPA 90/100 Supervisor: Prof. Zhou Xiao	<i>2016 - 2019</i> <i>Wuhan, China</i>
B.Eng., Wuhan University of Technology Major: Measurement and Control Technology & Instruments	<i>2012 - 2016</i> <i>Wuhan, China</i>

EXPERIENCE

Algorithm Engineer Autocity (Shenzhen) Autonomous Driving	<i>2023 - 2023</i> <i>Shenzhen, China</i>
Algorithm Engineer Tellhow Sci-Tech Co., Ltd	<i>2020 - 2022</i> <i>Nanchang, China</i>
Software Engineer Huawei Technologies Co., Ltd	<i>2019 - 2020</i> <i>Dongguan, China</i>
Visiting Student California PATH, University of California, Berkeley	<i>May - Oct., 2018</i> <i>Richmond, USA</i>

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.