

Research Interests

Computer Vision, Scene/Video Understanding, Action Detection & Recognition, etc

Education ___

Huazhong University of Science and Technology(HUST, GPA:85/100)

Wuhan, China

M.S. in Information & Communication Engineering

Sep. 2016 - Jun 2019

Concentration: Temporal Action Detection, Action Recognition

Advisor: Bin Feng, Xinggang Wang

Xi'an, China

Xidian University(Xidian, GPA:81/100)B.S. in Biomedical-Engineering

Sep. 2012 - Jun 2016

Related Courses: Digital Image Processing(98), Random Signal Processing(98), Digital Signal Process(88), Signals

and Systems(86) Advisor: Liyu Huang

Honors & Awards _____

| 2017 | 5th Place , Pig Face Recognition Competition National Final, JD Inc | Beijing, China |
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| 2017 | First Prize Academic Scholarship, HUST | Wuhan, China |
| 2016 | First Prize Academic Scholarship, HUST | Wuhan, China |
| 2015 | Award of Excellence, Provincial awards | Xi'an, China |
| College Students Innovation and Entrepreneurship Project organised by Shaanxi Province | | |
| 2015 | Second Prize Academic Scholarship, Xidian | Xi'an, China |
| 2014 | Third Prize Academic Scholarship, Xidian | Xi'an, China |

Working Experience _____

Computer Vision Researcher

Shenzhen, China Jul. 2019 - Present

SenseTime Technology

Car Wheel(Key Point) Detection:

- Detect the position of four wheels to judge the direction of the vehicle.
- Achieved comparable performance to large model but with only 10% of the backbone parameters.

Road Damage Detection:

- Detect and recognize road damages(cracks, potholes, etc.).
- Explored the impacts of bounding box ratio and polygon detection in anomaly detection.
- Outperformed the 1st solution of IEEE BigData 2020 Global Road Damage Detection Challenge (in the post-match leaderboard).

Passenger Fall Recognization:

- Recognize passenger's fall in escalator surveillance video.
- Implemented a TSM network to model spatial-temporal information in video with conventional 2D CNN in real-time.

Research Intern Beijing, China

SenseTime Technology

Jan. 2018 - Jul. 2018

Face Tracking:

- Tracking face on the smartphone with ultra-lightweight GOTURN backbone.
- Devised a new training pipeline to improve the model's robustness to motion jitter and training speed(10x).

Publication

Xu, L. (2019). Cascaded Boundary Network for High-Quality Temporal Action Proposal Generation. IEEE Transactions on Circuits and Systems for Video Technology, 30(10), 3702-3713.

Skills_

Machine LearningPyTorch, TensorFlowProgrammingPython, C++, MATLAB

Languages Chinese, English(IELTS Overall Band 7.5, speaking 7.0)

References _____

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