

Research Interests

Computer Vision, 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

Xidian University(Xidian, GPA:81/100)

Xi'an, China

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	First Prize Academic Scholarship, HUST	Wuhan, China
2016	First Prize Academic Scholarship, HUST	Wuhan, China
2015	Award of Excellence, Provincial awards	Xi'an, China
Colle	ege Students Innovation and Entrepreneurship Project organised by Shaanxi Province	
2015	Second Prize Academic Scholarship, Xidian	Xi'an, China

Working Experience_

Computer Vision Researcher

Shenzhen, China

Xi'an, China

SenseTime Technology

Jul. 2019 - Present

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.).

2014 Third Prize Academic Scholarship, Xidian

- 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 InternSenseTime 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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