LIKUN CAI

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GitHub | Website | GoogleScholar | LinkedIn

Education

Fudan University Shanghai, China
Ph.D. student in Computer Science *Sep. 2020 – Present*

ShanghaiTech University Shanghai, China
Master in Computer Science, GPA: 3.57 *Sep. 2017 – Jul. 2020*

- Advisor: Prof. Ning Cai

Xidian University Shaanxi, China
Bachelor in Space Information and Digital Technology, GPA: 3.6 *Sep. 2013 – Jul. 2017*

- National Encouragement Scholarship

Experience

Amazon Web Services Shanghai, China
Research Intern *Dec. 2020 - Present*

- Under the supervision of Dr. Zhu Yi and Dr. Li Mu.
- Research on 2D object detection
- Aim to build strong and robust object detection system for real-world scenarios including long-tailed distribution, few-shot learning, and open-vacabulary

Tencent GYLab Shanghai, China
Research Intern *Apr. 2020 - Aug. 2020*

- Under the supervision of Dr. Gang Yu.
- Research on generative models
- Aim to develop better makeup transfer model for human-face with help of generative adversarial net and 3D face reconstruction

Publications

* indicates equally contributions.

Likun Cai, Zhi Zhang, Yi Zhu, Li Zhang, Mu Li, and Xiangyang Xue. "BigDetection: A Large-scale Benchmark for Improved Object Detector Pre-training." *CVPR Workshop on Vision Datasets Understanding*. 2022.
[paper] [code]

Likun Cai, Yanjie Chen, Ning Cai, Wei Cheng, and Hao Wang. "Utilizing amari-alpha divergence to stabilize the training of generative adversarial networks." *Entropy* 22, no. 4 (2020): 410.
[paper] [code]

Chen, Yanjie*, **Likun Cai***, Wei Cheng, and Hao Wang. "Super-Resolution Coding Defense Against Adversarial Examples." In *Proceedings of the 2020 International Conference on Multimedia Retrieval*, pp. 189-197. 2020.
[paper]

Skills

Tools and Lanugages Git, LaTeX, MarkDown, Python[good], C/C++[basic]
Quantitative Research Deep Learning/Machine Learning, Computer Vision, Information Theory
Communication Chinese, English