Zhihe Lu

🌐 https://zhihelu.github.io/ ✉ zhihelu@nus.edu.sg

EDUCATION

CVSSP, University of Surrey (Top 1 on Computer Vision in UK)   **Supervisor: Prof. Tao Xiang**
Doctoral Degree in Computer Vision   *2019.07 - 2022.09*

Institute of Automation, Chinese Academy of Sciences   **Supervisor: Prof. Ran He**
Master Degree in Computer Vision   *2016.09 - 2019.06*

College of Electrical Engineering, Zhengzhou University
Bachelor of Engineering, Automation   *2010.09 - 2014.06*

RESEARCH INTERESTS

Computer Vision, Transfer Learning, Few-shot Learning, and Continual Learning

PUBLICATIONS

Published (∗ Equal contribution):

Prediction Calibration for Generalized Few-shot Semantic Segmentation
Zhihe Lu, *Sen He, Da Li, Yi-Zhe Song, and Tao Xiang*   *TIP 2023*

Simpler is Better: Few-shot Semantic Segmentation with Classifier Weight Transformer
Zhihe Lu, *Sen He, Xiatian Zhu, Li Zhang, Yi-Zhe Song, Tao Xiang*   *ICCV 2021*

Stochastic Classifiers for Unsupervised Domain Adaptation
Zhihe Lu, *Yongxin Yang, Xiatian Zhu, Cong Liu, Yi-Zhe Song, Tao Xiang*   *CVPR 2020*

Conditional Expression Synthesis with Face Parsing Transformation
Zhihe Lu, *Tanhao Hu, Lingxiao Song, Zhaoxiang Zhang, Ran He*   *ACM MM 2018*

Task Residual for Tuning Vision-Language Models
Tao Yu∗, **Zhihe Lu**∗, *Xin Jin, Zhibo Chen, and Xinchao Wang*   *CVPR 2023*

Geometry Guided Adversarial Facial Expression Synthesis
Lingxiao Song, **Zhihe Lu**, *Ran He, Zhenan Sun, Tieniu Tan*   *ACM MM 2018*

Recent Progress of Face Image Synthesis
Zhihe Lu, *Zhihang Li, Jie Cao, Ran He, and Zhenan Sun*   *ACPR 2017*

Preprint:

Efficient Multi-grained Knowledge Reuse for Class Incremental Segmentation
Zhihe Lu, *Shuicheng Yan, and Xinchao Wang*   *ArXiv*

Can SAM Boost Video Super-Resolution?
Zhihe Lu, *Zeyu Xiao, Jiawang Bai, Zhiwei Xiong, and Xinchao Wang*   *ArXiv*

WORKING EXPERIENCES

2022.09 - now: Research Fellow at National University of Singapore, Singapore.
2021.10 - 2022.04: Intern in Samsung, UK.

ADDITIONAL

Served as reviewers for: TPAMI, IJCV, TIP, CVPR, ICCV, ECCV, ICML, NeurIPS, etc
Software skills: Python, Pytorch, Linux, MATLAB and LaTex
English: IELTS 6.5
Student representative at CVSSP, the University of Surrey
2012 − 2013: National Scholarship, Zhengzhou University
2013 − 2014: Outstanding Graduate of Henan Province, Zhengzhou University