Mr. Wangbo Zhao
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EDUCATON

School of Automation, Northwestern Polytechnical University, Xi'an, China **09/2019-present**

Postgraduate in Pattern Recognition and Intelligent System

- Focus: Computer Vision
- Cumulative GPA: 87.47/100

Université de technologie de Troyes, Troyes, France **09/2017-06/2019**

Jointly trained. in Mechanical Engineering as an exchange student

Honors College, Northwestern Polytechnical University, Xi'an, China **09/2015-06/2019**

B.Eng. in Mechatronics Engineering

- Cumulative GPA: 83.94/100

PROFESSIONAL EXPERIENCE

MeiTuan Inc. & HPC-AI Lab at NUS **07/2021-Present**

- Research intern jointly supervised by **Dr. Xiangxiang Chu** and **Prof. Yang You**. Responsible for designing novel video segmentation algorithms including text-based video object segmentation and video instance segmentation. One Paper was accepted by CVPR 2022.

Northwestern Polytechnical University | China **03/2019-Present**

- Combined instance segmentation with salient object detection to realize instance-level salient object detection. One paper was accepted by T-IP.
- Proposed an end-to-end solution for the relative salient object ranking problem. One paper was accepted by T-PAMI.
- Proposed a new task named weakly-supervised video salient object detection and proposed a method, which achieved comparable performance with fully-supervised methods. One paper was accepted by CVPR 2021.
- Proposed two graph models to aggregate information from different source images for light field salient object detection. One paper was accepted by ICCV 2021.
- Designed a transformer-based model for video salient object detection. One Paper was submitted to CVPR 2022.

Université de technologie de Troyes | France 09/2018-01/2019

- Analyzed the process of cars in collision with finite element analysis. Built models in CATIA and simulated the process in ABAQUS

PUBLICATIONS & PATENTS

- Nian Liu, **Wangbo Zhao***, Dingwen Zhang, Ling Shao, Junwei Han. Light Field Saliency Detection with

Dual Local Graph Learning and Reciprocative Guidance. IEEE International Conference on Computer Vision (ICCV), 2021.

- **Wangbo Zhao**, Jing Zhang, Long Li, Nick Barnes, Nian Liu, Junwei Han. Weakly Supervised Video Salient Object Detection. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021.
- Nian Liu, **Wangbo Zhao**, Ling Shao, Junwei Han. SCG: Saliency and Contour Guided Salient Instance Segmentation. IEEE Transactions on Image Processing (T-IP), 2021.
- Nian Liu, Long Li, **Wangbo Zhao**, Junwei Han, Ling Shao. Instance-Level Relative Saliency Ranking with Graph Reasoning. IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), 2021.
- **Wangbo Zhao**, Kai Wang, Xiangxiang Chu, Fuzhao Xue, Xinchao Wang,Yang You. Modeling Motion with Multi-Modal Features for Text-Based Video Segmentation. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022. (Accept 2022/03/03)

AWARDS

11/2021 First-class Academic Scholarship , Northwestern Polytechnical University.

11/2021 Social Activity Scholarship , Northwestern Polytechnical University.

11/2021 Inspur Scholarship (Graduate), Inspur Group

11/2021 Yanyiti Sports Special Scholarship, Northwestern Polytechnical University.

08/2021 OpenMMLab Algorithm Challenge 2nd, openmmlab (ShangHai AI Lab &SenseTime)

12/2020 Special Scholarship, China State Shipbuilding Corporation 716 Research Institute.

09/2020 Second-class Academic Scholarship , Northwestern Polytechnical University.

09/2019 First-class Academic Scholarship, Northwestern Polytechnical University.

10/2017 Yanyiti Sports Special Scholarship , Northwestern Polytechnical University.

05/2017 Scholarship for Outstanding Undergraduate International Exchange Program, China Scholarship Council (CSC).

SKILLS

Deep learning libraries	PyTorch, OpenCV, Scikit-learn,
Programming languages	Python, C/C++, Matlab, CUDA

ACADEMIC SERVICES

Reviewer of IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022.

Reviewer of IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021.

Reviewer of IEEE International Conference on Computer Vision (ICCV), 2021.

Reviewer of European Conference on Computer Vision (ECCV), 2022.