Liangjun Zhu

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Address: Wuxi, Jiangsu, China

1998-03 | Male

Education

PhD candidate in Control Science and Engineering, Jiangnan University, China   Sep 2020 - Present

Advisor: Li Peng

Thesis Title: Research on image-text object segmentation based on adaptive dynamic neural networks.

Masters in Control Engineering, Jiangnan University, China   Sep 2019 - Jul 2020

Advisor: Li Peng

Thesis Title: Research on image-text object segmentation based on adaptive dynamic neural networks.

BTech in Electrical Engineering and Automation, Fuyang Normal University, China   Sep 2015 – Jul 2019

Advisor: Shuguang Chen

Thesis Title: Face Features Matching Based on the SIFT Algorithm

Awards: Excellent Undergraduate Thesis

Research Work

Dual-decoder transformer network for answer grounding in visual question answering

Published: Pattern Recognition Letters, vol. 171 (2023), pp. 53-60. https://doi.org/10.1016/j.patrec.2023.04.003

An encoder-decoder framework with dynamic convolution for weakly supervised instance segmentation

Published: IET Computer Vision. 1– 12 (2023). https://doi.org/10.1049/cvi2.12202

Research Projects

Commodity Review Supervision System, China (2021)   Position: Project manager & leader

Worked on collecting and processing the data of commodity reviews. Proposed a static method to reflect the quality of produced goods.

Intelligent Line Crane Supervision, China (2020)   Position: Project leader

Primarily worked on coordinating the relationship between the employer and the project director. Improving the object detection method for faster and more accurate recognition effectiveness of workers to prevent serious fatal accidents.

Intelligent Workshop Safety Monitoring System, China (2019-2020)   Position: Project designer

Advance worked on coordinating the relationship between the employer and the project director. Mainly worked on designing processes to guide the staff to accomplish the scheduled goals.

Precision aluminum foil embossing inspection, China (2019)   Position: Project intern

Preliminary worked on compiling and debugging the program of designed software. Primarily contributed on projects involving software efficiency and display effect.

Research Interest

Computer Vision: Object Detection, Instance Segmentation

Multimodal Interaction: Image-Text Interaction, Visual Question Answering

Awards

2017 China Smart Manufacturing Challenge Industrial Hardware R&D Competition: The *first* place

2019 *Excellent* Undergraduate Thesis

2020 Graduate Professional Scholarship: The *second* place

2021 Graduate Professional Scholarship: The *second* place