

Haoxin Li

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RESEARCH INTERESTS

- Computer Vision: video understanding, human action and interaction analysis

EDUCATION

Nanyang Technological University

Aug. 2021 - NOW

- Ph.D. student in Computer Science and Engineering
- Research area: computer vision.
- Supervisor: Prof. Boyang Li and Prof. Hanwang Zhang.

Sun Yat-sen University

Aug. 2018 - Jun. 2021

- M.Sc. in Information and Communication Engineering
- Research area: computer vision.
- Supervisor: Prof. Wei-Shi Zheng.

Sun Yat-sen University

Aug. 2014 - Jun. 2018

- B.E. in Electronic Engineering
- Average Score: 92.48/100, ranking: 2/119.

PUBLICATIONS

- [Haoxin Li](#), Wei-Shi Zheng, Yu Tao, Haifeng Hu, Jian-Huang Lai. **Adaptive Interaction Modeling via Graph Operations Search**. In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020.

To learn adaptive structures to model interactions in different videos for interaction recognition, we automate the process of structures design by searching for adaptive network structures with differentiable architecture search mechanism, which facilitates adaptive interaction modeling in videos.

- [Haoxin Li](#), Yijun Cai, Wei-Shi Zheng. **Deep Dual Relation Modeling for Egocentric Interaction Recognition**. In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019.

To exploit the strong relations between the two interacting persons in egocentric videos for egocentric interaction recognition, we introduce a dual relation modeling framework which learns to model the relations between the camera wearer and the interactor based on the individual action representations of the two persons.

- Yijun Cai, Haoxin Li, Jian-Fang Hu, Wei-Shi Zheng. **Action Knowledge Transfer for Action Prediction with Partial Videos**. In 33rd AAAI Conference on Artificial Intelligence (AAAI), 2019.
- Shuosun Guan, Haoxin Li, Wei-Shi Zheng. **Unsupervised Learning for Optical Flow Estimation Using Pyramid Convolution LSTM**. In IEEE International Conference on Multimedia and Expo (ICME), 2019.
- Jiaming Zhou, Kun-Yu Lin, Haoxin Li, Wei-Shi Zheng. **Graph-Based High-Order Relation Modeling for Long-Term Action Recognition**. In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021.

CONTESTS

- ActivityNet Large-Scale Activity Recognition Challenge 2018: Trimmed Event Recognition (Moments in Time Recognition Challenge), Rank: 1/12 in Mini Track, 10/29 in Full Track.

AWARDS

- Outstanding Undergraduate Thesis Award, by Sun Yat-sen University, 2018
- Chinese National Scholarship (1/264), by Minister of Education of China, 2015