HANZHE HU

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EDUCATION BACKGROUND

09/2015-07/2019	Department of Physics (Elite program),	Nanjing University, Nanjing, China
09/2019-07/2022	Department of Machine Intelligence, School of EECS	Peking University, Beijing, China

RESEARCH INTEREST

Computer Vision, Semantic Segmentation, Machine Learning, Reinforcement Learning, Quantum Computation

AWARDS/HONORS/SCHOLARSHIPS/MEMBERSHIP

10/2016	Xingquan Zeren Scholarship	2500 CHY	10%
10/2016	Renmin Scholarship	2000 CHY	10%
04/2017	Mathematical Contest in Modeling(MCM) USA	Honorable	
10/2017	Renmin Scholarship	600CHY	
11/2017	University Physics Experiment Contest(Jiangsu Province)	Second	Prize
09/2019	Xueye Scholarship	23000CHY	
01/2020	1st National AI Challenge(Re-ID)	Rank	1%

PUBLICATIONS

- **Hanzhe Hu**, Deyi Ji, Weihao Gan, Wei Wu and Junjie Yan. *Link Feature Learning with Graph Convolutional Network for Target Re-identification.*   ACM MM'20 (under review)
- **Hanzhe Hu**, Deyi Ji, Weihao Gan, Wei Wu and Junjie Yan. *Class-wise Dynamic Graph Convolution for Semantic Segmentation*.   ECCV'20 (poster)
- **Hanzhe Hu**, Jinshi Cui and Hongbin Zha. *Boundary-aware Graph Convolution for Semantic Segmentation.* ICPR'20 (ac)
- Shuai Bai, Zhiqun He, Yu Qiao, **Hanzhe Hu**, Wei Wu and Junjie Yan. *Adaptive Dilated Network with Self Correction Supervision for Counting.*   CVPR'20 (poster)

RESEARCH   EXPERIENCES

➢ Dec. 2017- Mar. 2018   Department of Computer Science, Nanjing University

Advisor: Prof. Yang Yu   State Key Laboratory for Novel Software Technology

Research on Zeroth-order Optimization

- Our research is based on the python packages: ZOOpt and ZOOsrv(a distributed version of ZOOpt), the main aim is to accomplish comparative experiments with other packages used for optimization including CMA-ES and BayesOpt. Comparative experiments are designed to compare efficiency of optimization on testing functions such as sphere function and ackley function and on clustering and classification.

➢ Feb. 2019-Nov.2019   SenseTime Group Research Institute

Advisor: Wei Wu

Research on lane-line semantic and instance segmentation

➢ In smart city project, lane-line detection is important for anomaly detection such as breaking traffic rules. Currently, we implement the state-of-art semantic segmentation network including Deeplab v3+ and PSPNet, and perform Meanshift clustering algorithm as a post-processing method to obtain the instance segmentation result. Moreover, our method achieves the state-of-art result on Tusimple lane detection benchmark dataset.

INTERNSHIP EXPERIENCE

Feb. 2019- Present.   SenseTime Group Research Institute

PROFESSIONAL SKILLS

Programming Language: C/C++, Python, SQL

Deep Learning Framework: Pytorch, Tensorflow

Computing Software: Matlab, Mathematica, Origin, Rev9