Yihui He

Interests

Vision	CNN Model Acceleration and Compression [1, 2], Super Resolution [3], Recognition [1], Detection, Structure from Motion, Panorama
AI	Security Game [4, 5], TSP [6]
Network	HTTP [7], DNS probing

Education

2014–2018 **B.S.**, *Xi'an Jiaotong University*, China, *83/100, 3.25/4.00.*
ranked 40/180

2016 spring **exchange student**, *University of California, Santa Babara*, CA, *4.0/4.0.*

Employment

now **Research Intern**, *Megvii Technology Inc.*, Beijing.
supervised by Xiangyu Zhang and Jian Sun
- ICCV 2017 (first author) paper accepted [1], TPAMI under review [2]
- keypoints aided pedestrian detection, translated into product

2016 summer **Research Intern**, *Deepglint Inc.*, Beijing.
Gastrointestinal stromal tumor Image Segmentation with Computer Vision

2015 summer **Engineering Intern**, *DJI Innovations Science and Technology Co., Ltd*, Shenzhen.
build prototype intelligent robots and program embedded system

Experience

2016–2018 **Member**, *Baidu Big Data Lab Joint Cultivation*.
Data Mining research on large scale location data

2017 **Undergrad Researcher**, *Computer Vision and AI Lab* .
Super Resolution, preparing a paper [3]

2016 spring **Undergrad Researcher**, *Prof. Xifeng Yan's Data Mining Lab*, UCSB.
Image Recognition with Estimated Depth

2014–2015 **Undergrad Researcher**, *MoE Key Lab for Intelligent Network and Network Security*.
- Security Game, a paper in revision [4, 5]
- Network, a paper under review [7]

2014 summer **2014 Robocup Junior Robot Soccer Championship**.

Xi'an Jiaotong University – Xi'an – China
📱 *+86 18702937918* • ✉ *yihuihe@foxmail.com* • 🌐 *yihui-he.github.io*
⌨ *yihui-he*

Languages

TOEFL	100
GRE	319+3.5

Extracurricular

- Microsoft Beauty of Programming competition 2015, ranked 200/8000
- Zhihu Writer with 2k followers

Publications

[1] **Yihui He**, Xiangyu Zhang, and Jian Sun. Channel pruning for accelerating very deep neural networks. In ***International Conference on Computer Vision (ICCV)***, 2017.

[2] **Yihui He**, Xiangyu Zhang, and Jian Sun. Pruning very deep neural network channels for efficient inference. ***IEEE transactions on pattern analysis and machine intelligence (TPAMI)***, 2017, under review.

[3] Yudong Liang, Ze Yang, Kai Zhang, **Yihui He**, Jinjun Wang, and Nanning Zheng. Single image super-resolution with a parameter economic residual-like convolutional neural network. ***arXiv*** *preprint arXiv:1703.08173*, 2017.

[4] Xiaobo Ma, **Yihui He**, Xiapu Luo, Jianfeng Li, and Xiaohong Guan. Vehicle traffic driven camera placement for better metropolis security surveillance. ***IEEE Intelligent Systems***, in revision.

[5] Xiaobo Ma, **Yihui He**, Xiapu Luo, Jianfeng Li, and Xiaohong Guan. Vehicle traffic driven camera placement strategy for metropolis security surveillance. In ***P.R. Patent***, page 201610114763.8, 2016.

[6] **Yihui He** and Ming Xiang. An empirical analysis of approximation algorithms for the euclidean traveling salesman problem. *arXiv preprint arXiv:1705.09058*, 2017.

[7] Hongwei Zhao, Xiaobo Ma, Shuai Li, Xiapu Luo, Mawei Shi, and **Yihui He**. Boosting the performance of dynamic adaptive streaming over http in bandwidth-fluctuation networks: A pid-based approach. **NOSSDAV**, 2017, under review.