Yihui He

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RESEARCH INTERESTS

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

EDUCATION

University of California, Santa Babara, CA   Spring 2016

Exchange student, Computer Science, GPA 4.0/4.0

Xi'an Jiaotong University, Xi'an, China   2014-2018

Bachelor, Computer Science, GPA 81.4/100

PUBLICATIONS

[1] **Yihui He**, Xiangyu Zhang, and Jian Sun. "Channel Pruning for Accelerating Very Deep Neural Networks". In: *The IEEE International Conference on Computer Vision (ICCV)*. Oct. 2017.

UNDER REVIEW

[2] **Yihui He**, Xiangyu Zhang, and Jian Sun. "Pruning very deep neural network channels for efficient inference". In: *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)* (2017).

[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". In: *IEEE Transactions on Multimedia (TMM)* (2017).

[4] Xiaobo Ma, **Yihui He**, Xiapu Luo, Jianfeng Li, Mengchen Zhao, Bo An, and Xiaohong Guan. "Vehicle Traffic Driven Camera Placement for Better Metropolis Security Surveillance". In: *IEEE Intelligent Systems (IS)* (2017).

[5] Hongwei Zhao, Xiaobo Ma, Shuai Li, Xiaopu Luo, Mawei Shi, and **Yihui He**. "Boosting the performance of dynamic adaptive streaming over http in bandwidth-fluctuation networks: A pid-based approach". In: *IEEE International Conference on Multimedia and Expo (ICME)* (2017).

PROJECT REPORTS

[6] **Yihui He**. *Estimated Depth Map Helps Image Classification*. 2017.

[7] **Yihui He** and Ming Xiang. *An Empirical Analysis of Approximation Algorithms for the Euclidean Traveling Salesman Problem*. 2017.

SERVICES

Reviewer, TIP (IEEE Transactions on Image Processing).

EMPLOYMENT

Johns Hopkins University   Baltimore, MD
Visiting Student   Sept, 2017 - Now
supervised by Alan Yuille

Megvii Inc (Face++)   Beijing
Research Intern   Sept, 2016 - Aug, 2017
supervised by Xiangyu Zhang and Jian Sun.
- ICCV 2017 (first author) paper accepted [1], TPAMI under review [2].
- Head boxes aided pedestrian detection, translated into product.

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

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

OTHER **Xi'an Jiaotong University** Xi'an
EXPERIENCE
Baidu Big Data Lab Joint Cultivation student
Data Mining research on large scale location data.

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

Undergrad Researcher in MoE Key Lab for Intelligent Network and Network Security
- Security Game, a paper in revision [4]
- Network, a paper under review [5]

HONORS AND Outstanding student, Xi'an Jiaotong University, 2016
AWARDS
Siyuan scholarship, Xi'an Jiaotong University, 2016

EXTRACURRICULAR Zhihu writer with 2.6k followers