

QI HAN

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RESEARCH INTERESTS

Computer Vision, Deep Learning.

🎓 EDUCATION

M.ENG., Computer Technology, 2019 – 2022 (Expected)
Media Computing Lab (supervised by Ming-Ming Cheng)
Nankai University, China

B.ENG., Computer Science and Technology, 2015 – 2019
College of Computer Science (Elite Class)
Xidian University, China
Avg. Score: 85.4

💬 PROFESSIONAL ACTIVITIES

Reviewer for IEEE CVPR 2021 and IJCAI 2021

⚙️ EXPERIENCES

Microsoft Research Asia (MSRA), China. 2021.1 – Present
Research Intern Mentor: Jingdong Wang, Qi Dai
Transformer based video analysis and understanding.

📄 PUBLICATIONS

means equal contribution.

Deep Hough Transform for Semantic Line Detection

Qi Han#, Kai Zhao#, Jun Xu, Ming-Ming Cheng
European Conference on Computer Vision (**ECCV**), 2020.

Deep Hough Transform for Semantic Line Detection

Kai Zhao#, **Qi Han**#, Chang-Bin Zhang, Jun Xu, Ming-Ming Cheng
IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), Minor

Global2Local: Efficient Structure Search for Video Action Segmentation

Shang-Hua Gao#, **Qi Han**#, Zhong-Yu Li, Pai Peng, Liang Wang, Ming-Ming Cheng
Submitted to IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.

Representative Batch Normalization with Feature Calibration

Shang-Hua Gao#, **Qi Han**#, Duo Li, Ming-Ming Cheng, Pai Peng
Submitted to IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.

CDNet: Complementary Depth Network for RGB-D Salient Object Detection

Wen-da Jin#, Jun Xu#, **Qi Han**, Ming-Ming Cheng, Yi Zhang
IEEE Transactions on Image Processing (**TIP**), accept.

Dependency Aware Filter Pruning

Kai Zhao#, Xin-Yu Zhang#, **Qi Han**#, Ming-Ming Cheng

Submitted to IEEE Transactions on **Cybernetics**

Delving Deep into Label Smoothing

Chang-Bin Zhang*, Peng-Tao Jiang*, Qibin Hou, Yunchao Wei, **Qi Han**, Zhen Li, Ming-Ming Cheng

Submitted to IEEE Transactions on Image Processing (**TIP**)

SELECTED AWARDS

- | | |
|---|----------------|
| • SK Scholarship | 2020 |
| • The First Prize Scholarship of Nankai University | 2020 |
| • “Outstanding graduates” of Xidian University | 2019 |
| • “Outstanding Student” of Xidian University | 2018,2017,2016 |
| • National Scholarship | 2018 |
| • Meritorious Winner of Interdisciplinary Contest In Modeling | 2018 |
| • Bronze Medal of ICPC National Invitational Contest Xi'an Station. | 2018 |
| • Second Prize of ShanXi Province Collegiate Programming Contest. | 2018 |
| • Silver Medal of Group Programming Ladder Tournament. | 2017 |
| • The First Prize Scholarship of Xidian University | 2017,2016 |

INVENTION PATENTS

Six invention patents with the following application numbers:

(1) 202010064079 .X; (2) 202010031394 .2; (3) 202010046252 .3; (4) 202010066280 .1; (5) 202011551847 .0;
(6) 202110004845 .8.

TECHNICAL SKILLS

- English: CET-6
- Programming: C/C++, Python
- Theory: Machine learning, Image processing, Neural networks.