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: Qi Dai (Senior Researcher), Jingdong Wang (SR Principal Researcher MGR)
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
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
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
IEEE Transactions on **Cybernetics**, submit.

Delving Deep into Label Smoothing

Chang-Bin Zhang#, Peng-Tao Jiang#, Qibin Hou, Yunchao Wei, **Qi Han**, Zhen Li, Ming-Ming Cheng
IEEE Transactions on Image Processing (**TIP**), submit.

🏆 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.