QIQI HOU

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RESEARCH INTEREST

My interest includes computer vision, computer graphics and machine learning, especially for the deep learning and its applications. My Ph.D. research mainly focuses on the image synthesis, including frame interpolation, novel view synthesis and Monte-Carlo denoising. I am also interested in matting, face landmark detection, photo-forensics, and photo aesthetics assessment.

EDUCATION

Portland State University Portland, OR, USA — 2017.09 - Present
Ph.D. Student of Maseeh College of Engineering and Computer Science
Advisor: Feng Liu

Xi'an Jiaotong University Xi'an China — 2014.09 - 2017.07
Master of Control Engineering
Advisor: Jinjun Wang

Xi'an Jiaotong University Xi'an China — 2010.09 - 2014.07
Bachelor of Automation

EXPERIENCE

Research Intern Microsoft Research Asia — 2015.05 - 2015.10
Advisor: Jingdong Wang

PUBLICATIONS

9. **Hou, Qiqi** and Feng Liu. "Context-Aware Image Matting for Simultaneous Foreground and Alpha Estimation" International Conference on Computer Vision (**ICCV2019**)

8. Zhou, Sanping, Jinjun Wang, Rui Shi, **Qiqi Hou**, Yihong Gong, and Nanning Zheng. "Large Margin Learning in Set-to-Set Similarity Comparison for Person Reidentification." IEEE Transactions on Multimedia(**TMM**) 20, no. 3 (2018): 593-604.

7. **Hou, Qiqi**, Jinjun Wang, Ruibin Bai, Sanping Zhou, and Yihong Gong. "Face alignment recurrent network." Pattern Recognition(**PR**) 74 (2018): 448-458.

6. Cheng, De, Yihong Gong, Jinjun Wang, **Qiqi Hou**, and Nanning Zheng. "Part-aware trajectories association across non-overlapping uncalibrated cameras." Neurocomputing 230 (2017): 30-39.

5. Bai, Ruibin, **Qiqi Hou**, Jinjun Wang and Yihong Gong. "Facial Animation Based on 2D Shape Regression." In Pacific Rim Conference on Multimedia(**PCM**), pp. 33–42. Springer, Cham, 2016.

4. Zhou, Sanping, Jinjun Wang, **Qiqi Hou**, and Yihong Gong. "Deep ranking model for person re-identification with pairwise similarity comparison." In Pacific Rim Conference on Multimedia(**PCM**), pp. 84-94. Springer, Cham, 2016.

3. Wang, Jinjun, **Qiqi Hou**, Nan Liu, and Shizhou Zhang. "Model of Human Visual Cortex Inspired Computational Models for Visual Recognition." In Multimedia Big Data (**BigMM**), 2015 IEEE International Conference on, pp. 88-91. IEEE, 2015.

2. Cheng, Lele, Jinjun Wang, Yihong Gong, and **Qiqi Hou**. "Robust deep auto-encoder for occluded face recognition." In Proceedings of the 23rd ACM international conference on Multimedia(**MM**), pp. 1099-1102. ACM, 2015. *short paper.*

1. **Hou, Qiqi**, Jinjun Wang, Lele Cheng, and Yihong Gong. "Facial landmark detection via cascade multi-channel convolutional neural network." In Image Processing (**ICIP**), 2015 IEEE International Conference on, pp. 1800-1804. IEEE, 2015.

PROGRAMMING SKILLS
    Languages: C++, Python, Matlab
    Deep Learning Framework: Pytorch, Caffe, Tensorflow. I am also familiar with Torch.

AWARDS
    Richard Kieburtz Memorial Graduate Fellowship, Portland State University
    Outstanding Master Thesis, Xian Jiaotong University

SERVICES
    Reviewer of AAAI Conference on Artificial Intelligence (AAAI) (2021)

Last updated: Sep, 2020