QIQI HOU

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RESEARCH INTEREST

My interest includes computer vision, computer graphics and machine learning. In particular, I'm interested in developing deep learning techniques for image and video editing applications. My Ph.D. research mainly focuses on image synthesis, including frame interpolation, novel view synthesis and Monte-Carlo denoising. I am also interested in matting, face landmark detection, and photo aesthetics assessment.

EDUCATION

Portland State University Portland, OR, USA 2017.09 - Present
Ph.D. in 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

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

PUBLICATIONS

- **Qiqi Hou** and Feng Liu. "Context-Aware Image Matting for Simultaneous Foreground and Alpha Estimation" International Conference on Computer Vision (**ICCV**), 2019
- **Qiqi Hou**, Jinjun Wang, Ruibin Bai, Sanping Zhou, and Yihong Gong. "Face alignment recurrent network." Pattern Recognition (**PR**) 74 (2018): 448-458.
- Ruibin Bai, **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.
- Jinjun Wang, **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.
- **Qiqi Hou**, 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 Frameworks: PyTorch, Caffe, TensorFlow.

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)