Rui Qian

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EDUCATION

PEKING UNIVERSITY **Beijing, China**

Bachelor of Computer Science Sept. 2015 – Jul 2019

- GPA: 3.73/4.00 (top 5%)
- Honors: Special Research Class of EECS (25/300)
- Coursework Highlights:
  - Computer Vision Related:
    Digital Image Processing(99)
  - Computer System Related:
    Operating System(96), Computer Organization(95), Computer Networks(92)
  - Math Related:
    Advanced Mathematics(94.5), Algebraic Structure and Combinatorial Mathematics(95)

PUBLICATION

- **Rui Qian**, Robby T.Tan, Wenhan Yang, Jiajun Su, and Jiaying Liu. "Attentive Generative Adversarial. Network for Raindrop Removal from A Single Image". Accepted by *IEEE Conference on Computer Vision and Pattern Recognition* (CVPR), Salt Lake City, USA, Jun. 2018. (**Spotlight**)

RESEARCH EXPERIENCE

Visual Computing Group, Microsoft Research Asia

Research Intern Sept. 2018 – Current

Advisor: Dr. Steve Lin, Dr. Jifeng Dai

Image Formation and Processing Group, University of Illinois Urbana-Champaign

Research Intern Jun. 2018 – Sept. 2018

Advisor: Prof. Thomas Huang

Yale-NUS College, National University of Singapore

Research Intern Jul. 2017 – Sept. 2017

Advisor: Prof. Robby T.Tan

Institute of Computer Science and Technology (ICST), Peking University

Research Intern Feb. 2017 – Current

Advisor: Prof. Jiaying Liu

PROJECTS

Point-guided Weakly Semantic Scene Parsing Jun. 2018 - Sept. 2018

- To alleviate the annotation burden, the regime of labeling one pixel per instance is explored
- A point-guided distance metric learning is used to optimize the feature representations of same-category points to be similar and those from different categories to be distinct
- Our final proposed method has competitive performance on PASCAL-Context and ADE 20K benchmarks with using only 0.006% annotated label pixels

Raindrop Removal from A Single Image Jun. 2017 - Oct. 2017

- A research topic with wide usage in image quality improvement and outdoor driving
- Offering a dataset containing over 1000 image pairs of raindrop pictures and ground-truth taken in various outdoor conditions in Beijing and Singapore
- Based on generative adversarial network, visual attention is injected to both generator and discriminator
- The whole architecture shows great ability in raindrop removal in most cases and obtains state-of-the-art. performance qualitatively and quantitatively

SELECTED AWARDS

- Outstanding Research Award, Peking University, 2017
- Scholarship of Phicomm Corp, 2017
- Scholarship of Founder Corp, 2016
- Second Prize of ACM-ICPC PKU Campus 2017 (rank 5%)

OTHER INFORMATION

Languages: Chinese (native), English (fluent): TOEFL 107(Speaking 23), GRE 153+170+4.0

Programming: C&C++, Python, Matlab, X86 Assembly

Deep learning frameworks: PyTorch, MXNet, Keras