Qunliang Xing

37 Xueyuan Road
Haidian District, Beijing, China

ryanxingql@gmail.com
https://ryanxingql.github.io

Introduction

Qunliang Xing is a Ph.D. student at Beihang University, advised by Changjiang Distinguished Professor Mai Xu. He obtained his BEng and Honors degrees at Beihang University in 2019. His research interests include image/video enhancement and coding. He has published two papers in IEEE TPAMI and one in ECCV, and one of them is top 1% highly cited according to the Essential Science Indicators (ESI). His papers have received over 300 citations. He has won two NTIRE championships. His open-source projects have received more than 600 stars. He was selected for the Tencent Rhino-bird Open-source Training Program. He is awarded the OpenMMLab Active Contributor. He serves as a reviewer for five IEEE transactions and conferences. He also excels in sports, having won second place in the Beihang 100m final and the Beihang soccer championship as the school team captain.

Education

Beihang University   2019.9 – Present
Ph.D. student   School of Electronics and Information Engineering
Honors Ph.D. Student   Shen Yuan Honors College

Beihang University   2015.9 – 2019.7
Bachelor of Engineering   School of Electronics and Information Engineering
Honors Bachelor   Shen Yuan Honors College

Publications

[1] DAQE: Enhancing the Quality of Compressed Images by Exploiting the Inherent Characteristic of Defocus
Qunliang Xing, Mai Xu, Xin Deng, Yichen Guo
IEEE Transactions on Pattern Analysis and Machine Intelligence (2023)

[2] Progressive Training of a Two-stage Framework for Video Restoration
Qunliang Xing, Meisong Zheng, Minglang Qiao, Mai Xu, Lai Jiang, Huaida Liu, Ying Chen
IEEE/CVF Computer Vision and Pattern Recognition (CVPR) Workshops (2022)
Technical report of our winning method in the NTIRE challenge.

[3] DeepQTMT: A Deep Learning Approach for Fast QTMT-based CU Partition of Intra-mode VVC
Tianyi Li, Mai Xu, Runzhi Tang, Ying Chen, Qunliang Xing
IEEE Transactions on Image Processing (2021)

[4] Early Exit or Not: Resource-efficient Blind Quality Enhancement for Compressed Images
Qunliang Xing, Mai Xu, Tianyi Li, Zhenyu Guan
European Conference on Computer Vision (2020)

[5] MFQE 2.0: A New Approach for Multi-frame Quality Enhancement on Compressed Video
Qunliang Xing, Zhenyu Guan, Mai Xu, Ren Yang, Tie Liu, Zulin Wang
IEEE Transactions on Pattern Analysis and Machine Intelligence (2019)
Highly cited paper (Top 1%) by Essential Science Indicators (ESI).

Work Experience

Research Intern on Video Quality Enhancement   2021.12 – Present
Tao Technology, Alibaba Group

Tencent Rhino-bird Open-source Training Program   2021.7 – 2021.9
Tencent Open Source

Reviewer   2021.2 – Present
IEEE TIP/TMM/TCSVT/JAS/ICME

Research Intern on Video Quality Enhancement for HW265 Codec   2018.12 – 2019.12
2012 Lab, Huawei

Honors and Awards

Beihang Excellent Academic Fund for PhD Candidates   2023
Beihang University   Ranked 1st in the college.

Glarun Scholarship   2022
The 14TH Research Institute, CETC   Among the 4 awardees in the college.

Winner of the NTIRE Challenge on Video Quality Enhancement   2022
NTIRE Challenge @ CVPR   Ranked 1st among the 8 finalists.

Beihang Excellent Graduate   2019
Beihang University   Top 20% in the university.

Beihang Outstanding/Merit Student   2015/18/21/22
Beihang University   Top 5% in the university.

Shenzhen Merit Student   2014
Education Bureau of Shenzhen Municipality   Sole awardee in the school.