

Summary

My topics of interest include computer vision, computational photography, and machine learning. I'm particularly interested in [Scene \(2D and 3D\) Synthesis and Understanding](#). I'm familiar in Python and JavaScript, and have contributed code to PyTorch and other open-source projects.

Education

The Chinese University of Hong Kong, Shenzhen

Shenzhen

COMPUTER INFORMATION ENGINEERING - MASTER OF PHILOSOPHY (GPA: 3.3/4)

Sep. 2019 - Jun. 2021

- Funded by Shenzhen Institute of Artificial Intelligence and Robotics for Society, and Robotics

Jiangxi Normal University

Nanchang

COMPUTER SCIENCE AND TECHNOLOGY - BACHELOR (GPA: 3.4/4) **GRADUATED WITH HIGH DISTINCTION**

Sep. 2015 - Jun. 2019

- 2015-2016 University Scholarship / China Telecommunications Scholarship

Experience

DAMO Academy, Alibaba-Group (阿里巴巴达摩院)

RESEARCH INTERN

Jul. 2020 - 2021

- Working on the research of old film enhancement with limited data. Under Prof. Lei Zhang (FIEEE).

Kwai Technology (快手)

IMAGE ALGORITHM ENGINEER INTERN

Jul. 2018 - Jun. 2019

- Worked on improving the photography capability of low-quality mobile cameras by Deep Learning. **The final output was turned into the practical application for daily usage in KuaiShou APP.**

JD.COM, Inc (京东)

SOFTWARE ARCHITECTURE ENGINEER INTERN

Jul. 2017 - Nov. 2017

- Worked on Intelligent Poster Generation System as a front-end software engineer. p.s. I was a second year bachelor student at that time.

Selected Publications

Disentangle Perceptual Learning through Online Contrastive Learning (arXiv)

KANGFU MEI, YAO LU, QIAOSI YI, HAoyu WU, JUNCHENG LI, RUI HUANG*

2021

Semantic Similarity Measurement for Scene Restoration and Understanding (TIP under review)

KANGFU MEI, RUI HUANG*

2021

AttaNet: Attention-Augmented Network for Fast and Accurate Scene Parsing (AAAI)

QI SONG, KANGFU MEI, RUI HUANG*

2021

MDCN: Multi-scale Dense Cross Network for Image Super-Resolution (TCSVT)

JUNCHENG LI, FAMING FANG*, JIAQIAN LI, KANGFU MEI, GUIXU ZHANG

2020

HighEr-Resolution Network for Image Demosaicing and Enhancing (ICCV Workshop)

KANGFU MEI, JUNCHENG LI, JIAJIE ZHANG, HAoyu WU, JIE LI, RUI HUANG*

2019

Residual Refine based Pseudo Multi-frame Network for Effective Single Image Super Resolution (IET IMAGE PROCESSING)

KANGFU MEI, AIWEN JIANG*, JUNCHENG LI, JIHUA YE, MINGWEN WANG

2018

Progressive Feature Fusion Network for Realistic Image Dehazing (ACCV)

KANGFU MEI, AIWEN JIANG*, JUNCHENG LI, JIHUA YE, MINGWEN WANG

2018

Multi-Scale Residual Network for Image Super-Resolution (ECCV)

JUNCHENG LI, FAMING FANG*, KANGFU MEI, GUIXU ZHANG

2018

Research

Connections Exploration between The Image Restoration and Understanding

LEADER

Jul. 2018 - Present

- In this research, my works mainly focus on improving the performance low-level vision tasks, e.g., super-resolution, de-hazing, and enlighten with high-level vision features. As well as improving the high-level vision tasks, i.e., semantic segmentation on restored degraded scenes with image enhancement technologies. Outputs are submitted to TIP, CVPR, ICME for peer review now.

Honors & Awards

INTERNATIONAL

- 2019 **1st Place**, Advances in Image Manipulation Challenges (RAW2RGB) in conjunction with ICCV 2019 *Seoul, Korea*
- 2019 **Oral**, Learning for Computational Imaging (LCI) Workshop in conjunction with ICCV 2019 *Seoul, Korea*
- 2018 **6th Place and Honorable Mention Award**, NTIRE-CVPR 2018 (Dehazing) *Salt Lake City, U.S.A*

DOMESTIC

- 2019 **4th Place and Geek Award**, Alibaba-Youku Video Enhancement and Super Resolution Challenge (4/1514) *Hangzhou, China*
- 2018 **3rd Place**, Single Image Dehazing Challenge in conjunction with ChinaMM 2018 *Xian, China*
- 2018 **Gold Award & Best innovative Award**, University Programming Challenge in Pearl River Delta (1/3000~) *Macau, China*
- 2017 **24th Place**, JD.COM Potential User Prediction (24/4240) *Beijing, China*
- 2016 **2nd Award**, National Computer Program Design Challenge *Shanghai, China*

Academic Service

- Reviewer, IJCV/TCSVT/CVIU/SPL