

Haoning Wu (Teo Wu)

📍 50 Nanyang Avenue, Singapore

🌐 github.com/teowu ✉ realtimothyhwu@gmail.com

Tel: +65 8299-0717, Homepage: teowu.github.io

EDUCATION

Nanyang Technological University, Singapore *Ph.D. Candidate* Aug 2021 - May 2025 (Expected)

Supervisor: Prof. Weisi Lin (NTU), Dr. Qiong Yan & Dr. Wenxiu Sun (Sensetime)

Research Topic: Video Quality Assessment and Video Quality Understanding

Peking University, Beijing, China *Supervisor:* Assoc. Prof. Tingting Jiang (PKU)

Research Topic: Image Quality Assessment, Perceptual-oriented Super Resolution, and Image Restoration

PUBLICATIONS

Disentangling Aesthetic and Technical Effects in Video Quality Assessment of User Generated Content (*Arxiv*)

Haoning Wu, Liang Liao, Chaofeng Chen, Jingwen Hou, Annan Wang, Wenxiu Sun, Qiong Yan, Weisi Lin

Code: github.com/teowu/dover, Preprint: arxiv.org/abs/2211.04894

Neighbourhood Representative Sampling for Efficient End-to-end Video Quality Assessment (*Extension*)

under review for IEEE Transactions on Pattern Analysis and Machine Intelligence

Haoning Wu, Chaofeng Chen, Liang Liao, Jingwen Hou, Wenxiu Sun, Qiong Yan, Jinwei Gu, Weisi Lin

FAST-VQA: Efficient End-to-End Video Quality Assessment via Fragment Sampling (*Original ECCV Poster*)

in Proceedings of European Conference on Computer Vision (ECCV) 2022

Haoning Wu, Chaofeng Chen, Jingwen Hou, Liang Liao, Annan Wang, Wenxiu Sun, Qiong Yan, Weisi Lin

Code: github.com/teowu/fast-vqa, ECCV: arxiv.org/abs/2207.02595, Extension: arxiv.org/abs/2210.05357

DisCoVQA: Temporal Distortion-Content Transformers for Video Quality Assessment (*Transaction, IF: 5.85*)

under Revision for IEEE Transactions on Circuits and Systems for Video Technology

Haoning Wu, Chaofeng Chen, Liang Liao, Jingwen Hou, Wenxiu Sun, Qiong Yan, Weisi Lin

Preprint: arxiv.org/abs/2206.09853

Exploring the Effectiveness of Video Perceptual Representation in Blind Video Quality Assessment (*Oral*)

in Processings of ACM International Conference on Multimedia (ACMMM) 2022

Liang Liao, Kangmin Xu, **Haoning Wu**, Chaofeng Chen, Wenxiu Sun, Qiong Yan, Weisi Lin

INDUSTRIAL EXPERIENCES

Sensetime Research, Beijing, China *Research Intern* Jan 2022 - July 2022

Research Topic: Subjective Studies and Approaches on Image Quality Assessment on Reconstructed Portraits

Megvii Technologies, Beijing, China *Research Intern* July 2020 - Apr 2021

Research Topic: Shadowed Image Restoration, Edge-refined Image Matting

RESEARCH EXPERIENCES

Spatial-Temporal Video Quality Understanding *From Aug 2021*

Supervisor: Prof. Weisi Lin (NTU), Dr. Qiong Yan & Dr. Wenxiu Sun (Sensetime)

Research Specifics: Efficient and Robust Video Quality Assessment; Explainable Video Quality Evaluation;

TECHNICAL SKILLS

Pytorch user, maintainer of the first end-to-end Deep Video Quality Assessment library that supports evaluation, training, visualization, etc which has gained 85 stars. Also available for C++, Matlab, R, etc.