

Haoning Wu

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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 *Bachelor of Science* Sep 2017 - June 2021
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/2011.04894

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/2007.02595, Extension: arxiv.org/abs/2010.05357

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/2006.09853

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.