DINGQUAN LI

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https://lidq92.github.io

EDUCATION

Peking University *September 2015 - Present*
Ph.D. Candidate, Applied Mathematics
School of Mathematical Sciences & Beijing International Center for Mathematical Research
Research Interests: Image/Video Quality Assessment & Perceptual Optimization
Advisors: Prof. Ming Jiang (Chang Jiang Scholar) & Prof. Tingting Jiang

Nankai University *September 2011 - June 2015*
Bachelor of Engineering, Electronics Science and Technology
Bachelor of Science, Mathematics and Applied Mathematics

PUBLICATIONS

1. **Dingquan Li**, Tingting Jiang, Weisi Lin, Ming Jiang. 2019. Which Has Better Visual Quality: The Clear Blue Sky or a Blurry Animal?
IEEE Transactions on Multimedia (TMM) **SCI JCR Q1, IF=5.452; CCF B**

2. **Dingquan Li**, Tingting Jiang, Ming Jiang. 2020. Norm-in-Norm Loss with Faster Convergence and Better Performance for Image Quality Assessment.
Accepted, ACM International Conference on Multimedia (MM) **Oral; CCF A**

3. **Dingquan Li**, Tingting Jiang, Ming Jiang. 2019. Quality Assessment of In-the-Wild Videos.
ACM International Conference on Multimedia (MM) **Oral; CCF A**

4. **Dingquan Li**, Tingting Jiang, Ming Jiang. 2017. Exploiting High-Level Semantics for No-Reference Image Quality Assessment of Realistic Blur Images.
ACM International Conference on Multimedia (MM) **CCF A**

5. **Dingquan Li**, Tingting Jiang. 2019. Blur-Specific No-Reference Image Quality Assessment: A Classification and Review of Representative Methods.
Proceedings of the International Conference on Sensing and Imaging **Invited Chapter**

6. **Dingquan Li**, Tingting Jiang, Ming Jiang. 2019. Recent Advances and Challenges in Video Quality Assessment.
ZTE Communications **Invited Paper**

7. Qin He, **Dingquan Li**, Tingting Jiang, Ming Jiang. 2018. Quality Assessment for Tone-Mapped HDR Images Using Multi-Scale and Multi-Layer Information.
International Conference on Quality of Multimedia Experience (ICME) Workshop

PREPRINTS

1. **Dingquan Li**, Tingting Jiang, Ming Jiang. 2019. Unified Quality Assessment of In-the-Wild Videos with Mixed Datasets Training
Major Revision, International Journal of Computer Vision (IJCV)

2. Yuwen Li, **Dingquan Li**, Tingting Jiang. 2020. Rank-based Image Quality Assessment for Image Enhancement.

WORKING EXPERIENCE

Research Assistant, National Engineering Laboratory for Video Technology 2015 - Present

· Working on image/video quality assessment with Prof. Ming Jiang and Prof. Tingting Jiang

Teaching Assistant, Peking University Mar. 2016 - Jan. 2019

· Mathematical Analysis; Advanced Mathematics; Set Theory and Graph Theory; Computer Graphics

Student Assistant, Peking University 2017 - Present

· Editing and maintaining the LaTeX template for the journal Advance in Mathematics (China)
· Background maintenance for the websites of School of Mathematical Sciences

COLLABORATION

Rapid-Rich Object Search (ROSE) Lab, Nanyang Technological University July 2017

· Working on image quality assessment with Prof. Weisi Lin

PRESENTATION

The 28th ACM International Conference on Multimedia Oct. 12-16, 2020

· Oral: Norm-in-norm loss with faster convergence and better performance for image quality assessment

The 27th ACM International Conference on Multimedia Oct. 21-25, 2019

· Oral: Quality assessment of in-the-wild videos

The 34th Academic Luncheon, School of Mathematical Sciences, Peking Uni. Oct. 2018

· Invited talk: Which has better visual quality: The clear blue sky or a blurry animal?

The 3rd PKU-NTU Workshop on AI+ Oct. 13-14, 2018

· Invited talk: Which has better visual quality: The clear blue sky or a blurry animal?

IEEE International Conference on Multimedia and Expo (ICME) 2018 July 23-27, 2018

· Oral: Quality assessment for tone-mapped HDR Images using multi-scale and multi-layer information

The 25th ACM International Conference on Multimedia Oct. 23-27, 2017

· Poster: Exploiting high-level semantics for no-reference image quality assessment of realistic blur images

ACADEMIC SERVICES

Reviewer of TIP, TMM, TCSVT, etc. & Secondary Reviewer of CVPR, ICCV, AAAI, ACM MM, etc.

HONORS AND AWARDS

2019-2020 BICMR Mathematical Scholarship for Graduate Students & President Scholarship
2018-2019 President Scholarship & Academic Innovation Award & Leo KoGuan Scholarship
2017-2018 National Scholarship & Merit Student & Outstanding Individual of NELVT
2016-2017 CreditEase Internet Finance Scholarship
2015-2016 Dean Scholarship
2011-2015 National Encouragement Scholarship (3 times) & Merit Student (2 times), etc.

TECHNICAL STRENGTHS

Sottware: LaTeX, Python, MATLAB, C++, Git, Bash
Deep Learning Framework: PyTorch, Keras, Caffe, Theano