

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 & 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)

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 L^AT_EX 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

Software: L^AT_EX, Python, MATLAB, C++, Git, Bash

Deep Learning Framework: PyTorch, Keras, Caffe, Theano