

# DINGQUAN LI

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<https://lidq92.github.io>

## EDUCATION

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### **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

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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)**

**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

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1. **Dingquan Li**, Tingting Jiang, Ming Jiang. 2019. Unified Quality Assessment of In-the-Wild Videos with Mixed Datasets Training

**Under Review, International Journal of Computer Vision (IJCV)**

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

## WORKING EXPERIENCE

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**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<sup>A</sup>T<sub>E</sub>X template for the journal Advance in Mathematics (China)
- Background maintenance for the website of School of Mathematical Sciences

## COLLABORATION

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

July 2017

- Working on image quality assessment with Prof. Weisi Lin

## PRESENTATION

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**The 27th ACM International Conference on Multimedia**

Oct. 21-25, 2019

- Oral presentation: 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 presentation: 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 presentation: Exploiting High-Level Semantics for No-Reference Image Quality Assessment of Realistic Blur Images

## ACADEMIC SERVICES

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

## HONORS AND AWARDS

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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

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**Software:** L<sup>A</sup>T<sub>E</sub>X, Python, MATLAB, C++, Git, Bash

**Deep Learning Framework:** PyTorch, Keras, Caffe, Theano