

Haoran Bai

PH.D. CANDIDATE · NANJING UNIVERSITY OF SCIENCE AND TECHNOLOGY

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Education

Nanjing University of Science and Technology

PH.D. CANDIDATE IN COMPUTER SCIENCE AND TECHNOLOGY

Nanjing, China

Sep. 2018 - Exp. Apr. 2023

- Member of **Intelligent Media Analysis Group (IMAG)**
- Advisor: Prof. **Jinshan Pan** (<https://sites.google.com/site/jspanhomepage/>)
- Research Interests: Image/Video enhancement and analysis, and related vision problems

Changzhou University

B.ENG. IN SOFTWARE ENGINEERING

Changzhou, China

Sep. 2014 - Jun. 2018

- GPA: 3.41 / 4.0
- Got the excellent graduates award due to previous undergraduate performance

Publications

Cascaded Deep Video Deblurring Using Temporal Sharpness Prior

In Proceedings of CVPR 2020

JINSHAN PAN, **HAORAN BAI**, AND JINHUI TANG

Jun. 2020

- We propose a simple and compact deep CNN model that simultaneously estimates the optical flow and latent frames for video deblurring.
- To better explore the properties of consecutive frames, we develop a temporal sharpness prior to constrain deep CNN models.
- We quantitatively and qualitatively evaluate the proposed algorithm on benchmark datasets and real-world videos and show that it performs favorably against state-of-the-art methods in terms of accuracy and model size.

Released Codes

Stamp Detection and Recognition for Motor Vehicle Inspection Record Sheet

Nanjing, China

MEMBER OF DEVELOPMENT TEAM

Jan. 2019

- Design an algorithm to detect and segment the stamp from the motor vehicle inspection record sheet.
- Develop a deep model based on CNN and LSTM to recognize characters in the stamp.

Web Crawler for Pixabay

Changzhou, China

AUTHOR OF THIS PROJECT

Apr. 2018

- Automatically download pictures from website (pixabay.com) according to the input keywords.

Honors & Awards

2019	1st-Class Scholarship , Nanjing University of Science and Technology Scholarship	Nanjing, China
2018	1st-Class Scholarship , Nanjing University of Science and Technology Scholarship	Nanjing, China
2017	1st-Class Scholarship , Changzhou University Scholarship	Changzhou, China
2017	Top 9.49% , CCF CERTIFIED SOFTWARE PROFESSIONAL (CSP)	Jiangsu, China
2017	Certification , Software Designer	Jiangsu, China
2016	2nd-Class Scholarship , Changzhou University Scholarship	Changzhou, China
2016	2nd prize , 7th Lanqiao Cup Individual (Software) Provincial	Jiangsu, China
2015	Special Scholarship , Changzhou University Scholarship	Changzhou, China

Skills

Programming	Java, C/C++, SQL, Python, Pytorch, TensorFlow
Databases	MySQL, PostgreSQL, Microsoft SQL Server
DocOps	Markdown, Latex, Microsoft Office
Tools	Git, FFmpeg, Numpy, Pandas, Opencv
Languages	Chinese, English