

Yu Wang

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EDUCATION

Jilin University, Changchun, Jilin, China

▪ **M.Eng. in Computer Science & Engineering**

Sep 2019 – Present

- Adviser: Prof. Xiongfei Li
- Focus: Computer Vision, Image Fusion, Optimization, Sparse Representation.
- Cumulative GPA: 86.07/100 (Top: 5%)

Chengdu University of Technology, Chengdu, Sichuan, China

▪ **B.Eng. in Information Engineering**

Sep 2014 – Jun 2018

- Related Subjects: C/C++ Programming, Operating System, Computer Network . . .
- GPA: 81.60/100 (Top: 20%)

RESEARCH EXPERIENCE

Listed by contributions

▪ **An Image Fusion Framework Based on a Pixel Level Focus Measure**

Oct 2020 – Jan 2021

- The proposed framework aims to address limitations of traditional focus measures.
- The advantages of dictionary learning and multi-scale approach are both considered.
- The pixel-level focus measure performs well in focus region detection.
- As the **First Author**, who conducts the whole project.
- The related paper is **published**, and the detail can be seen in the Publication Section.

▪ **Medical Image Fusion Based on NSS Prior and Optimization**

Sep 2021 – Nov 2021

- Nonlocal self-similarity (NSS) prior is introduced and adapted to the input.
- We model the fusion problem with a non-convex function, solved by a half-quadratic splitting algorithm.
- As a **Co-Author**, who takes responsibility for the problem formulation and give its solution.
- The related paper is submitted.

▪ **A Detail Enhancement and Fusion Framework Based on a Residual Network**

Dec 2019 – Sep 2020

- A novel network is proposed to effectively extract and enhance the details.
- We design a dual-guidance filter and prove the linear relationship between gradient maps.
- As a **Co-Author**, who engaged in the discussion of the proposed filter and the implement of this method.
- The related paper is submitted and **under review**.

▪ **A Correlational Temporal Model on Sequence Recommendation**

May 2021 – Sep 2021

- We propose the concept of dynamic feature of items to model the time varying hidden features.
- A novel doubled-chained BiGRU model is proposed.
- As a **Co-Author**, which contributes to the implement of the proposed method.
- The related paper is submitted and **under review**.

PUBLICATIONS

JOURNALS

- **Wang, Y.**, Li, X., Zhu, R., Wang, Z., Feng, Y., and Zhang, X. “A multi-focus image fusion framework based on multi-scale sparse representation in gradient domain,” *Signal Processing*, vol. 189, pp. 108254, 2021. (Q1, IF:4.662)

AWARDS & SCHOLARSHIPS

- Master’s Excellence Scholarship, First Prize (Top: 5%), Jilin University

2020 - 2021

- Excellent Master’s Student Prize (Top: 5%), Jilin University

2020 - 2021

- Academic Performance Scholarship (Top: 40%), Jilin University

2019 - 2021

- Excellent Club President Prize, Chengdu University of Technology

2016

CAMPUS ACTIVITIES

Computer and Network Technology Club, Chengdu University of Technology

- Committee members - Committee chairman - President

Sep 2014 – Jul 2016

- Managed the biggest student club of the university during my term,
- Conducted and organized several school-level activities

LANGUAGES

- IELTS Overall Band Score 6.5: Listening 6.5 Reading 7.5 Writing 6.0 Speaking 6.0

SKILLS

- MATLAB, Python, PyTorch, \LaTeX , C/C++, JavaScript, SQL