

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

Key Laboratory of Symbolic Computation and Knowledge Engineering, Jilin University

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

Oct 2020 – Jan 2021

- Propose a pixel-level focus measurement in multi-focus fusion field to alleviate the difficulty of the existing method, which generally measuring in the block-level, in focus detection.
- Our work leverages the sparse learning method with a multi-scale approach, followed by infusing the spatial information into the feature map with the adaptive recursive filter.
- As the **First Author**, who conducts the whole project.
- The related paper is **published**, and the detail can be seen in the Publication Section.

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

Dec 2019 – Sep 2020

- To tackle the problem that fused images is vulnerable to the presence of artifacts and unclear pixels, we designed a neural network, incorporated with a novel filter, to extract and enhance the details.
- 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 argue that the conventional methods on sequence recommendation neglect time varying hidden features of items. Hence, we propose the concept of dynamic feature of items, and build a novel doubled-chained BiGRU model.
- As a **Co-Author**, which contributes to the implement of the proposed method.
- The related paper is submitted and **under review**.

Microcontroller Laboratory, Chengdu University of Technology

▪ Thesis: A Face-Recognition Neural Network

Oct 2020 – Jan 2021

- Built a command software based on a typical convolutional network, which can verify the identity of a person through an image or video.
- Supervisors: Prof. Shi Yi

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