

Yu Wang

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EDUCATION

Jilin University, Changchun, Jilin, China

- M.Eng. in Computer Technology 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 (*Interdisciplinary*) 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
 - Dictionary learning technique is extended to capture the multi-scale features.
 - The proposed pixel-level focus measure address the limitations of block-level focus measures.
- **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.
- **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.
- **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.

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)
- Wang. Z, Li. X, Duan. H, Zhang. X, and **Wang. Y** “DEF: A new detail enhancement framework for multi-focus image fusion”, *Under Review*

CONFERENCES

- Zhu. R, Li. X, **Wang. Y.** and Zhang. X “Medical image fusion based on pixel-level nonlocal self-similarity prior and optimization”, *Submitted*
- Zuo. X, Liang. S, Yuan. X, Yu. S, **Wang. Y.** and Yang. B “HCoTemp: Heterogeneous Graph Enhanced Period-Aware Correlational-Temporal Model for Sequential Recommendation”, *Under Review*

AWARDS & SCHOLARSHIPS

- National Prize, Jilin University 2021
- 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

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