

Jijie Wu (武继杰)

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Education

Lanzhou University of Technology

September 2015 – April 2019

- B.E. in Software Engineering

Lanzhou University of Technology

September 2019 – Present

- M.E. in Computer Science and Technology
- Ph.D. in Manufacturing Information System
 - Adviser: Prof. Xiaoxu Li
 - Focus: Few-shot Image Classification, Meta-Learning

Publications

Highlights

- [1] **Jijie Wu**, Dongliang Chang, Aneeshan Sain, Xiaoxu Li*, Zhanyu Ma, Jie Cao, Jun Guo, and Yi-Zhe Song, “Bi-Directional Feature Reconstruction Network for Fine-grained Few-shot Image Classification,” in Association for the Advancement of Artificial Intelligence (AAAI), 2023.
- [2] Xiaoxu Li, **Jijie Wu**, Zhuo Sun, Zhanyu Ma*, Jie Cao and Jing-Hao Xue, “BSNet: Bi-Similarity Network for Few-shot Fine-grained Image Classification,” IEEE Transactions on Image Processing (TIP), 2021.

International Journal

- [1] Xiaoxu Li, Qi Song, **Jijie Wu**, Rui Zhu, Zhanyu Ma, Jing-Hao Xue, “Locally-Enriched Cross-Reconstruction for Few-Shot Fine-Grained Image Classification,” IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2023.
- [2] Xiaoxu Li, **Jijie Wu**, Zhuo Sun, Zhanyu Ma*, Jie Cao and Jing-Hao Xue, “BSNet: Bi-Similarity Network for Few-shot Fine-grained Image Classification,” IEEE Transactions on Image Processing (TIP), 2021.

International Conference

- [1] Xiaowei Guo, **Jijie Wu**, Kai Ren, Qi Song, and Xiaoxu Li, “Dual Feature Reconstruction Network Based on Few-Shot Image Classification,” in Proceedings of The 15th Annual Conference Organized by Asia-Pacific Signal and Information Processing Association (APSIPA), 2023.
- [2] **Jijie Wu**, Dongliang Chang, Aneeshan Sain, Xiaoxu Li*, Zhanyu Ma, Jie Cao, Jun Guo, and Yi-Zhe Song, “Bi-Directional Feature Reconstruction Network for Fine-grained Few-shot Image Classification,” in Association for the Advancement of Artificial Intelligence (AAAI), 2023.
- [3] Zhuo Sun, **Jijie Wu**, Xiaoxu Li, Wenming Yang and Jing-Hao Xue, “Amortized Bayesian Prototype Meta-learning: A New Probabilistic Meta-learning Approach to Few-shot Image Classification,” Proceedings of the 24th International Conference on Artificial Intelligence and Statistics. (AISTATS), 2021.
- [4] Yalan Li, **Jijie Wu**, “Cross-Domain Few-shot Classification through Diversified Feature Transformation Layers,” 2021 IEEE International Conference on Artificial Intelligence and Computer Applications (ICAICA), 2021.

- [5] Xiaoxu Li, Jintao Yan, **Jijie Wu**, Yuxin Liu, Xiaochen Yang and Zhanyu Ma, “Anti-noise Relation Network for Few-shot Learning,” in Proceedings of The 11th Annual Conference Organized by Asia-Pacific Signal and Information Processing Association (APSIPA), 2020.
- [6] Xiaoxu Li, **Jijie Wu**, Dongliang Chang, Zhanyu Ma, and Jie Cao, “Mixed Attention Mechanism for Small-Sample Fine-grained Image Classification,” in Proceedings of The 11th Annual Conference Organized by Asia-Pacific Signal and Information Processing Association (APSIPA), 2019.

Chinese Journal

- [1] 李晓旭, 刘忠源, **武继杰**, 曹洁, 马占宇. 小样本图像分类的注意力全关系网络. 计算机学报, 2022.
- [2] 李晓旭, 安文娟, **武继杰**, 李真, 张珂, 马占宇. 通道注意力双线性度量网络. 吉林大学学报, 2022.

专利

- [1] **武继杰**, 张志敏, 丁硕, 等. 一种基于特征扩散模型的图像分类方法及装置, 2023.
- [2] **武继杰**, 胥骁麟, 薛少英, 等. 一种基于类别相关特征重建的图像分类方法及装置, 2023.
- [3] **武继杰**, 冀璐琛, 芦培育, 等. 一种基于视觉迁移对齐的图像分类方法及装置, 2023.
- [4] 李晓旭, 郭紫杰, 刘俊, **武继杰**, 等. 基于大边界贝叶斯原型学习的小样本图像分类方法及装置, 2023.

Awards

- Lanzhou University of Technology Excellent Master’s Thesis

Services

Reviewer

- IEEE Transactions on Neural Networks and Learning Systems 2022-
- NEUROCOMPUTING 2021-

Skills and Qualifications

Languages

- Native in Chinese, proficient in English

Programming

- Python, Java, L^AT_EX

Techniques

- Machine learning (NumPy, Scikit-learn)
- Deep learning (PyTorch, TensorFlow)