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 GitHub Profile

EDUCATION

Ph.D. student	2023.09 – Now
School of Artificial Intelligence and Computer Science, Jiangnan University	
M.S. student	2021 – 2023
School of Artificial Intelligence and Computer Science, Jiangnan University	
Bachelor	2016 – 2020
School of Computer and Information Engineering, Jiangxi Agricultural University	

WORK EXPERIENCE

Software Engineer	2020.08 – 2021.08
Hundsun Technologies Inc.	

RESEARCH INTEREST

Image Registration, Image Fusion, and Low-light Image Enhancement

PUBLICATIONS

FULL PUBLICATION LIST IN [GOOGLE SCHOLAR](#)

- [1] **M Lu**, M Jiang, X Tao, J Kong. AU-Net: Adaptive Unified Network for Joint Multi-modal Image Registration and Fusion. IEEE TIP. DOI: <https://doi.org/10.1109/TIP.2025.3586507>
- [2] X Tao, J Kong, M Jiang, **M Lu**, A Mian. Unsupervised Learning of Intrinsic Semantics With Diffusion Model for Person Re-Identification. IEEE TIP, 2024.
- [3] **M Lu**, M Jiang, J Kong, X Tao. LDRepFM: A Real-Time End-to-End Visible and Infrared Image Fusion Model Based on Layer Decomposition and Re-Parameterization. IEEE TIM, 2023.
- [4] Y Xiong, J Kong, Y Zhang, **M Lu**, M Jiang. Cross-Modal Collaborative Evolution Reinforced by Semantic Coupling for Image Registration and Fusion. IEEE TIM, 2025.
- [5] T Lin, **M Lu**, M Jiang, J Kong. MIAFusion: Infrared and Visible Image Fusion via Multi-scale Spatial and Channel-Aware Interaction Attention. PRCV, 2024.

PAPERS UNDER REVIEW AND PREPRINTS

- [1] **M Lu**, M Jiang, S Zhu, J Kong, D Liu. CDFM: Training-Free Co-Optimized Conditional Diffusion Model for General Image Fusion.
- [2] J Lu, M Jiang, J Kong, D Zhuang, **M Lu**. Mitigating Inherent Bias of Answer Heuristic based Frameworks in Knowledge-based Visual Question Answering. IEEE TMM. (Accept)
- [3] J Li, J Kong, Y Zhang, **M Lu**, M Jiang. SPCL: Semantic Polymorphism and Commonality Learning for Text-based Person Retrieval. IEEE TCSVT. (Minor Revision)

PATENT

- [1] M Jiang, **M Lu**, J Kong, X Tao. Infrared and Visible Image Fusion based on Layer Decomposition and Re-parameterization. China Patent (ZL202310005792.0). 2023.

AWARDS AND HONOURS

1. **M Lu**. China Scholarship Council (CSC) Program (202506790073), 2025. **¥150,000 RMB**.
2. **M Lu**. Research on Multi-modal Image Registration and Fusion Based on an Adaptive Unified Network. Postgraduate Research & Practice Innovation Program of Jiangsu Province (KYCX24_2643), 2024. **¥15,000 RMB**.
3. X Tao, D Zhuang, **M Lu**, ... High-Performance Many-Core Simulation Application Platform. the 9th China International "Internet +" College Student Innovation and Entrepreneurship, Third Prize of Jiangsu Province.

PROJECT EXPERIENCE

1. M Jiang, ..., **M Lu**, ... Real-World Interactive Lifelong Learning for Person Re-Identification. National Natural Science Foundation of China (62371208), 2024-2027. **¥500,000 RMB**.
2. M Jiang, ..., **M Lu**, ... Unsupervised domain adaptive person re-identification combining sample disentanglement and dynamic trajectory quantization. National Natural Science Foundation of China (62371209), 2024-2027. **¥500,000 RMB**.
3. M Jiang, **M Lu**, ... Intelligent Edge Controller. Innovation and Technology Project, 2021-2023. **¥650,000 RMB**.

PROFESSIONAL SERVICES

1. **Reviewer of the Following Journals**
 - IEEE Transactions on Image Processing (TIP)
 - IEEE Transactions on Multimedia (TMM)
 - IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
 - IEEE Signal Processing Letters (SPL)

SKILLS & INTERESTS

- **Interests:** image synthesis, training-free conditional diffusion models, cross-modal image-to-image translation, image registration, image fusion, low-light image enhancement, etc.
- **Skills:** Python, PyTorch, Java, MySQL, Linux, C/C++, etc.