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RESEARCH INTERESTS	Creative AI, Generative Model, Computer Vision, Machine Learning	
PUBLICATIONS	(† indicates correspondence, * indicates equal contribution)	
	1. Z. Kong, F. Gao, Y. Zhang†, Z. Kang, X. Wei, X. Cai, G. Chen, W. Luo †, Let Them Talk: Audio-Driven Multi-Person Conversational Video Generation, <i>Neural Information Processing Systems (NeurIPS)</i> , 2025. 2. Y. Cai, Z. Jiang, Y. Liu, C. Jiang, W. Xue, Y. Guo, W. Luo , Foundation Cures Personalization: Improving Personalized Models' Prompt Consistency via Hidden Foundation Knowledge, <i>Neural Information Processing Systems (NeurIPS)</i> , 2025. 3. Z. He, M. Yang, S. Yang, Y. Tang, T. Wang, K. Zhang, G. Chen, Y. Liu, J. Jiang, C. Guo, W. Luo †, MaterialMVP: Illumination-Invariant Material Generation via Multi-view PBR Diffusion, <i>Proc. of International Conference on Computer Vision (ICCV)</i> , 2025. (Highlight) 4. T. Wang, P. Xia, B. Li, P. Jiang, Z. Kong, K. Zhang, T. Lu, W. Luo †, MOERL: When Mixture-of-Experts Meet Reinforcement Learning for Adverse Weather Image Restoration, <i>Proc. of International Conference on Computer Vision (ICCV)</i> , 2025. 5. R. Guan, T. Liu, W. Tu, C. Tang, W. Luo , X. Liu, Sampling Enhanced Contrastive Multi-View Remote Sensing Data Clustering with Long-Short Range Information Mining, <i>IEEE Transactions on Knowledge and Data Engineering (TKDE)</i> , vol. 37, pp. 5598-5612, 2025. 6. M. Li, X. Long, Y. Liang, W. Li, Y. Liu, P. Li, W. Luo , W. Wang, Y. Guo, Multi-View Large Reconstruction Model via Geometry-Aware Positional Encoding and Attention, <i>IEEE Transactions on Visualization and Computer Graphics (TVCVG)</i> , vol. 31, pp. 8564-8577, 2025. 7. X. Chen, Y. Li, H. Shi, B. Hu, W. Luo , Y. Wang, M. Zhang, VideoVista-CulturalLingo: 360° Horizons-Bridging Cultures, Languages, and Domains in Video Comprehension,	

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 10. Z. Jin, Y. Qiu, K. Zhang, H. Li, **W. Luo**†, MB-TaylorFormer V2: Improved Multi-branch Linear Transformer Expanded by Taylor Formula for Image Restoration, *IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 47, pp. 5990–6005, 2025.
 11. T. Wang, K. Zhang, Y. Zhang, **W. Luo**†, B. Stenger, T. Lu, T. Kim, W. Liu, H. Li, LLDiffusion: Learning Degradation Representations in Diffusion Models for Low-Light Image Enhancement, *Pattern Recognition (PR)*, vol. 166, pp. 111628, 2025.
 12. Z. Ye, H. Huang†, X. Wang, P. Wan, D. Zhang, **W. Luo**†, StyleMaster: Stylize Your Video with Artistic Generation and Translation, *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, 2025.
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- Luo[†]**, Blind Face Video Restoration with Temporal Consistent Generative Prior and Degradation-Aware Prompt, *The 32rd ACM International Conference on Multimedia (ACM MM)*, 2024.
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SERVICE

- Senior Area Editor:** IEEE Signal Processing Letters (2025 - current)
Associate Editor: IEEE Transactions on Image Processing (2025 - current), Neurocomputing (2024 - current), IET Computer Vision (2024 - current)
Area Chair: ICLR 2026, NeurIPS 2025, ACM MM 2025, ICML (2026, 2025), IJCAI 2025, IJCNN 2025, BMVC (2025, 2024)
Conference Organization/Service: SIGGRAPH Asia 2025 (Conflict-of-Interest Coordinator), CVM 2025 (Workshop Chair), AsiaGraphics (Vice Secretary, 2025 -)
Senior Program Committee: IJCAI (2024, 2023, 2021), AAAI (2026, 2025, 2024, 2022)
Workshop Organizer: Consistency in Video Generative Models: from Clip to Wild, in conjunction with AAAI 2026
Journal Reviewer: TPAMI, TIP, CSUR, TNNLS, TMM, TCSVT, PR
Conference Reviewer: ICML, NeurIPS, CVPR, ACL, ECCV, ICCV, BMVC, AAAI, IJCAI, ACM MM, WACV

TALKS

- Invited talk in The Asiographics Workshop on Intelligent Graphics in SIGGRAPH Asia 2025.
- Invited talk in the Institute of Automation, Chinese Academy of Science, hosted by

- Prof. Jin Gao, Aug, 2025.
- Invited talk in China Spatial Intelligence Conference 2025.
 - Shenzhen University, hosted by Prof. Yanshan Li, Mar, 2025.
 - Shenzhen University, hosted by Prof. Xu Wang, Dec, 2024.
 - Zhejiang University, hosted by Prof. Qi Ye, Oct, 2024.
 - Southern University of Science and Technology, hosted by Prof. Feng Zheng, Jul, 2024.
 - Wuhan University, hosted by Prof. Guisong Xia, Apr, 2024
 - Zhejiang University, hosted by Dr. Qi Ye, Jun, 2022.
 - Shenzhen University, hosted by Prof. Yanshan Li, Feb, 2022.
 - Beijing Institute of Technology, hosted by Prof. Changsheng Li, Jan, 2022.
 - Southern University of Science and Technology, hosted by Prof. Xiaoying Tang, Sep, 2020.
 - The Shenzhen Institutes of Advanced Technology, Chinese Academy of Science (CAS), hosted by Prof. Yun Zhang, Sep, 2018.
 - The Institute of Automation, Chinese Academy of Science, hosted by Prof. Weiming Hu, Aug, 2018.
 - Graduate School of Shenzhen, Tsinghua University, hosted by Prof. Yujiu Yang, June, 2018.

PATENTS

- **W. Luo**, L. Bao, Y. Gao, W. Liu, Method and apparatus for generating negative sample of face recognition, and computer device, US 11302118 B2
- **W. Luo**, Y. Wang, W. Liu, Living body detection method and apparatus, electronic device, storage medium, and related system to which living body detection method is applied, US 2021/0073516 A1
- **W. Luo**, L. Ma, W. Liu, Neural network model training method and device, and time-lapse photography video generating method and device, US 2020/0293833 A1
- **W. Luo**, Target Tracking Method And Apparatus, Electronic Device, And Storage Medium, US 11145069 B2
- K. Zhang, **W. Luo**, L. Ma, W. Liu, Video Deblurring Method And Apparatus, Storage Medium, And Electronic Apparatus, US 2020/0372618 A1
- K. Zhang, **W. Luo**, L. Ma, W. Liu, Media processing method, related apparatus, and storage medium, US 11335127 B2
- K. Zhang, **W. Luo**, L. Ma, W. Liu, Image recognition method and apparatus, terminal, and storage medium, US2020/0302180 A1
- K. Zhang, **W. Luo**, H. Li, Image processing method and apparatus, computer device, and storage medium, US 2021/0256663 A1
- K. Zhang, **W. Luo**, L. Ma and W. Liu, Microexpression-based image recognition method and apparatus, and related device. US20210174072A1
- Z. Chen, L. Ma, **W. Luo**, W Liu, Video sequence selection method, computer device, and storage medium, US 2021/0224601 A1
- Z. Chen, L. Ma, **W. Luo**, W Liu, Video clip positioning method and apparatus, computer device, and storage medium, US 2021/0349940 A1
- H. Huang, H. Wang, **W. Luo**, L. Ma, W. Jiang, X. Zhu, Z. Li, W. Liu, Method And Apparatus For Training Neural Network Model Used For Image Processing, And Storage Medium, US 2021/0182616 A1

AWARDS AND HONORS

- CCF-Tencent Rhino-Bird Faculty Fund Excellence Award, 2024
- Champion award in the Bracketing Image Restoration and Enhancement Challenge - Track 1 & 2, NTIRE 2024, in conjunction of CVPR 2024
- The second place in the Few-shot RAW Image Denoising competition of MIPI 2024, in conjunction of CVPR 2024
- Top 2% Scientists Worldwide, 2023, 2024 & 2025.

- ACM China Rising Star (Guangzhou Chapter), 2022.
- CVPR Best Paper Finalist, 2019.

**DEPARTMENTAL
SERVICES**

- PG Programs Coordinator, Div. of Arts and Machine Creativity, 2025 - present
- Chair of PG Committee, Div. of Arts and Machine Creativity, 2025 - present
- Search and Appointment Committee (SAC), Div. of Arts and Machine Creativity, 2024 - present
- 3-in-1 Planning Committee (Research Matters), Div. of Arts and Machine Creativity, 2025 - present
- Deputy Critical Incident Coordinator, Div. of Arts and Machine Creativity, 2025 - present
- Search and Appointment Committee (SAC), Div. of Emerging Interdisciplinary Areas, 2024 - present

**UNIVERSITY AND
SCHOOL SERVICES**

- Search Committee, for the Head of the Div. Arts and Machine Creativity, 2024
- Interdisciplinary PG Studies Committee, Academy of Interdisciplinary Studies, 2025 - present

THESIS

W. Luo, Generic Multiple Object Tracking, Dept. of Electrical and Electronic Engineering, Imperial College London, 2016.

LANGUAGE

Mandarin (mother tongue)
 English (strong at reading and writing, good at listening, fluent in speaking)
 German (elementary knowledge)