# Wenhan LUO, Ph.D., IEEE Senior Member

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WORKING EXPERIENCE The Hong Kong University of Science and Technology

Associate Professor
 Sun Yat-sen University
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Tencent
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• Senior Researcher

London, UK

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Jun, 2024 - present

Shenzhen, China

Shenzhen, China

Jul, 2022 - Mar, 2024

Mar, 2020 - Jul, 2022

Jul, 2019 – Jan, 2020 Shenzhen, China

Palo Alto, CA, USA

Aug, 2016 – May, 2019

**EDUCATION** 

Imperial College London

• Ph.D. in Computer Science

Oct, 2012 - Jun, 2016

Oct, 2012 – Jun, 201

Institute of Automation, Chinese Academy of Sciences

• M.E. in Control Theory and Control Engineering

Beijing, China

Sep, 2009 – Jul, 2012

Huazhong University of Science and Technology

• B.E. in Automation

Wuhan, China

Sep, 2005 - Jul, 2009

RESEARCH Interests Creative AI, Generative Model, Computer Vision, Machine Learning

Publications

(† indicates correspondence, \* indicates equal contribution)

- P. Li, Y. Liu, X. Long, F. Zhang, C. Lin, M. Li, X. Qi, S. Zhang, W. Luo, P. Tan, W. Wang, Q. Liu, Y. Guo, Era3D: High-Resolution Multiview Diffusion using Efficient Row-wise Attention, Neural Information Processing Systems (NeurIPS), 2024.
- L. Li, P. Dong, Z. Tang, X. Liu, Q. Wang, W. Luo, W. Xue, Q. Liu, X. Chu, Y. Guo, Discovering Sparsity Allocation for Layer-wise Pruning of Large Language Models, Neural Information Processing Systems (NeurIPS), 2024.
- 3. R. Li, J. Yu, C. Li, **W. Luo**, Y. Yuan, G. Wang, DREAM: Domain-agnostic Reverse Engineering Attributes of Black-box Model, *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, vol. 36, pp. 8009-8022, 2024.
- 4. T. Zhou, Q. Ye, W. Luo, H. Ran, Z. Shi, J. Chen, APPTracker+: Displacement Uncertainty for Occlusion Handling in Low-Frame-Rate Multiple Object Tracking, International Journal of Computer Vision (IJCV), to appear.
- Z. Kong, W. Zhang, T. Wang, K. Zhang, Y. Li, X. Tang, W. Luo†, Dual Teacher Knowledge Distillation with Domain Alignment for Face Anti-spoofing, *IEEE Trans.* on Circuits and Systems for Video Technology (TCSVT), vol. 34, pp. 13177-13189, 2024.
- J. Tan, H. Park, Y. Zhang, T. Wang, K. Zhang, X. Kong, P. Dai, Z. Liu, W. Luo<sup>†</sup>, Blind Face Video Restoration with Temporal Consistent Generative Prior and Degradation-Aware Prompt, The 32rd ACM International Conference on Multimedia (ACM MM), 2024.
- Z. Kong, Y. Zhang, T. Yang, T. Wang, K. Zhang, B. Wu, G. Chen, W. Liu, W. Luo†, OMG: Occlusion-friendly Personalized Multi-concept Generation In Diffusion Models, European Conference on Computer Vision (ECCV), 2024.

- 8. B. Tang, K. Zhang<sup>†</sup>, W. Luo<sup>†</sup>, W. Liu, H. Li, Prompting Future Driven Diffusion Model for Hand Motion Prediction, *European Conference on Computer Vision* (*ECCV*), 2024.
- L. Li, H. Sun, S. Li, P. Dong, W. Luo, W. Xue, Q. Liu, Y. Guo, Auto-GAS: Auto-mated Proxy Discovery for Training-free Generative Architecture Search, European Conference on Computer Vision (ECCV), 2024.
- L. Li, Z. Wei, P. Dong, W. Luo, W. Xue, Q. Liu, Y. Guo, AttnZero: Efficient Attention Discovery for Vision Transformers, European Conference on Computer Vision (ECCV), 2024.
- 11. L. Li, Y. Bao, P. Dong, C. Yang, A. Li, W. Luo, Q. Liu, W. Xue, Y. Guo, DetKDS: Knowledge Distillation Search for Object Detectors, *International Conference on Machine Learning (ICML)*, 2024.
- J. Huang, Z. Wang, T. Liu, W. Luo, Z. Chen, W. Zhao, M. Wang, DeMPAA: Deployable Multi-Mini-Patch Adversarial Attack for Remote Sensing Image Classification, *IEEE Trans. on Geoscience and Remote Sensing*, vol. 62, pp. 1-13, 2024.
- 13. X. Chen, J. Tan, T. Wang, K. Zhang, W. Luo†, X. Cao, Towards Real-World Blind Face Restoration with Generative Diffusion Prior, *IEEE Trans. on Circuits and Systems for Video Technology (TCSVT)*, vol. 34, pp. 8494-8508, 2024.
- T. Wang, K. Zhang, Z. Shao, W. Luo†, B. Stenger, T. Lu, T. Kim, W. Liu, H. Li, GridFormer: Residual Dense Transformer with Grid Structure for Image Restoration in Adverse Weather Conditions, *International Journal of Computer Vision (IJCV)*, vol. 132, pp. 4541–4563, 2024.
- 15. X. Qi, J. Pan, P. Li, R. Yuan, X. Chi, M. Li, W. Luo, W. Xue, S. Zhang, Q. Liu, Y. Guo, Weakly-Supervised Emotion Transition Learning for Diverse 3D Cospeech Gesture Generation, Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2024.
- Y. Shao, S. He, Q. Ye, Y. Feng, W. Luo, J. Chen, Context-Aware Integration of Language and Visual References for Natural Language Tracking, Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2024.
- 17. Y. Li, B. Hu, W. Luo, L. Ma, Y. Ding, M. Zhang, A Multimodal In-Context Tuning Approach for E-Commerce Product Description Generation, *International Conference on Computational Linguistics (COLING)*, 2024.
- Y. Gao, W. Zhang, W. Luo, L. Ma, J. Yu, G. Xia, J. Ma, Aux-NAS: Exploiting Auxiliary Labels with Negligibly Extra Inference Cost, *International Conference on Learning Representations (ICLR)*, 2024.
- W. Wang, C. Du, T. Wang, K. Zhang, W. Luo†, L. Ma, W. Liu, X. Cao, Punctuation-level Attack: Single-shot and Single Punctuation Can Fool Text Models, Neural Information Processing Systems (NeurIPS), 2023.
- 20. Y. Yu, P. Zhang, K. Zhang, W. Luo, C. Li, Y. Yuan, G. Wang, Multi-Prior Learning via Neural Architecture Search for Blind Face Restoration, *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, to appear.
- J. Tan, X. Chen, T. Wang, K. Zhang, W. Luo<sup>†</sup>, X. Cao, Blind Face Restoration for Under-Display Camera via Dictionary Guided Transformer, *IEEE Trans. on Circuits* and Systems for Video Technology (TCSVT), vol. 34, pp. 4914-4927, 2024.
- 22. K. Zhang, T. Wang, **W. Luo**<sup>†</sup>, W. Ren, B. Stenger, W. Liu, H. Li, M. Yang, MC-Blur: A Comprehensive Benchmark for Image Deblurring, *IEEE Trans. on Circuits and Systems for Video Technology (TCSVT)*, vol. 34, pp. 3755-3767, 2024.
- T. Wang, G. Tao, W. Lu, K. Zhang, W. Luo, X. Zhang, T. Lu, Restoring Vision in Hazy Weather with Hierarchical Contrastive Learning, *Pattern Recognition*, vol. 145, pp. 109956, 2024.
- 24. T. Gao, Y. Wen, K. Zhang, J. Zhang, T. Chen, L. Liu, W. Luo, Frequency-oriented Efficient Transformer for All-in-one Weather-degraded Image Restoration, IEEE Trans. on Circuits and Systems for Video Technology (TCSVT), vol. 34, pp. 1886-1899, 2024.

- 25. T. Zhou, Q. Ye<sup>†</sup>, W. Luo<sup>†</sup>, K. Zhang, Z. Shi, J. Chen, FnF Attack Adversarial Attack against Multiple Object Trackers by Inducing False Negatives and False Positives, *Proc. of International Conference on Computer Vision (ICCV)*, 2023.
- P. Cheng, L. Lin, J. Lyu, Y. Huang, W. Luo, X. Tang, PRIOR: Prototype Representation Joint Learning from Medical Images and Reports, Proc. of International Conference on Computer Vision (ICCV), 2023.
- Y. Qiu, K. Zhang, C. Wang, W. Luo, H. Li, Z. Jin, MB-TaylorFormer: Mutil-branch Efficient Transformer Expanded by Taylor Formula for Image Dehazing, Proc. of International Conference on Computer Vision (ICCV), 2023.
- S. Wang, C. Nguyen, J. Liu, K. Zhang, W. Luo, Y. Zhang, S. Muthu, F. Maken, H. Li, Homography Guided Temporal Fusion for Road Line and Marking Segmentation, Proc. of International Conference on Computer Vision (ICCV), 2023.
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- 30. Z. Song, Z. Zhang, K. Zhang, W. Luo†, Z. Fan, W. Ren and J. Lu, Robust Single Image Reflection Removal Against Adversarial Attacks, *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, 2023.
- 31. Z. Kong, W. Zhang, F. Liu, W. Luo, H. Liu, L. Shen and R. Ramachandra, Taming Self-Supervised Learning for Presentation Attack Detection: De-Folding and De-Mixing, *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, vol. 35, pp. 10639-10650, 2024.
- 32. T. Wang, K. Zhang, T. Shen, W. Luo<sup>†</sup>, B. Stenger, T. Lu<sup>†</sup>, Ultra-High-Definition Low-Light Image Enhancement: A Benchmark and Transformer-Based Method, *Proc. of the Association for the Advancement of Artificial Intelligence (AAAI)*, 2023. (Oral Presentation)
- 33. H. Fang, P. Xiong, L. Xu, **W. Luo**<sup>†</sup>, Transferring Image-CLIP to Video-Text Retrieval via Temporal Relations, *IEEE Transactions on Multimedia (TMM)*, vol. 25, pp. 7772-7785, 2023.
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- 37. K. Zhang, D. Li, W. Luo, J. Liu, J. Deng, W. Liu, S. Zafeiriou, EDFace-Celeb-1M: Benchmarking Face Hallucination with a Million-scale Dataset, *IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 45, pp. 3968-3978, 2023.
- K. Zhang, W. Ren, W. Luo, W. Lai, B. Stenger, M. Yang, H. Li, Deep Image Deblurring: A Survey, *International Journal of Computer Vision (IJCV)*, vol. 130, pp. 2103-2130, 2022.
- 39. K. Zhang, **W. Luo**†, Y. Yu, W. Ren, F. Zhao, C. Li, L. Ma, W. Liu, H. Li, Beyond Monocular Deraining: Parallel Stereo Deraining Network Via Semantic Prior, *International Journal of Computer Vision (IJCV)*, vol. 130, pp. 1754-1769, 2022.
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- 41. K. Zhang, D. Li, W. Luo, W. Ren, W. Liu, Enhanced Spatio-Temporal Interaction Learning for Video Deraining: A Faster and Better Framework, *IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 45, pp. 1287-1293, 2023.
- 42. K. Zhang, D. Li, W. Luo, W. Ren, B. Stenger, W. Liu, H. Li, M. Yang, Benchmark-

- ing Ultra-High-Definition Image Super-resolution, *Proc. of International Conference on Computer Vision (ICCV)*, 2021.
- 43. W. Niu, K. Zhang, W. Luo†, Y. Zhong, Blind Motion Deblurring Super-Resolution: When Dynamic Spatio-Temporal Learning Meets Static Image. *IEEE Trans. on Image Processing (TIP)*, vol. 30, pp. 7101-7111, 2021.
- 44. K. Zhang, D. Li, **W. Luo**, W. Ren, Dual Attention-in-Attention Model for Joint Rain Streak and Raindrop Removal. *IEEE Trans. on Image Processing (TIP)*, vol. 30, pp. 7608-7619, 2021.
- 45. K. Zhang, R. Li, Y. Yu, **W. Luo**, C. Li, Deep Dense Multi-scale Network for Snow Removal Using Semantic and Geometric Priors. *IEEE Trans. on Image Processing* (*TIP*), vol. 30, pp. 7419-7431, 2021.
- R. Xia, Y. Li, W. Luo, LAGA-Net: Local-And-Global Attention Network for Skeleton Based Action Recognition, *IEEE Transactions on Multimedia (TMM)*, vol. 24, pp. 2648-2661, 2022.
- 47. F. Zhong, P. Sun, W. Luo, T. Yan, Y. Wang, Towards Distraction-Robust Active Visual Tracking, *International Conference on Machine Learning (ICML)*, 2021.
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- K. Zhang, W. Luo<sup>†</sup>, L. Ma, W. Ren, and H. Li, Disentangled Feature Networks for Facial Portraits Generation, *IEEE Transactions on Multimedia (TMM)*, vol. 24, pp. 1378-1388, 2022.
- 52. W. Luo, J. Xing, A. Milan, X. Zhang, W. Liu, and T-K. Kim, Multiple Object Tracking: A Literature Review, *Artificial Intelligence*, vol. 293, pp. 103448, 2021.
- 53. X. Zhang, T. Wang, **W. Luo**, P. Huang, Multi-level Fusion and Attention-guided CNN for Image Dehazing, *IEEE Trans. on Circuits and Systems for Video Technology* (*TCSVT*), vol. 31, pp. 4162-4173, 2021.
- 54. T. Wang, X. Zhang, R. Jiang, L. Zhao, H. Chen, W. Luo, Video Deblurring via Spatiotemporal Pyramid Network and Adversarial Gradient Prior, *Computer Vision and Image Understanding (CVIU)*, vol. 203, pp. 103135, 2021.
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- 56. T. Liu, W. Luo, L. Ma, J. Huang, T. Stathaki, T. Dai, Coupled Network for Robust Pedestrian Detection with Gated Multi-Layer Feature Extraction and Deformable Occlusion Handling, *IEEE Trans. on Image Processing (TIP)*, vol. 30, pp. 754-766, 2021.
- 57. K. Zhang, W. Luo, B. Stenger, W. Ren, L. Ma, H. Li, Every Moment Matters: Detail-Aware Networks to Bring a Blurry Image Alive, *The 28th ACM International Conference on Multimedia (ACM MM)*, 2020.
- 58. K. Zhang, W. Luo, W. Ren, J. Wang, F. Zhao, L. Ma, H. Li, Beyond Monocular Deraining: Stereo Image Deraining via Semantic Understanding, *European Conference on Computer Vision (ECCV)*, UK, 2020.
- Z. Zhou, W. Luo, Q. Wang, J. Xing, W. Hu, Distractor-Aware Discrimination Learning for Online Multiple Object Tracking, *Pattern Recognition*, vol. 107, pp. 107512, 2020.
- 60. K. Zhang, W. Luo, Y. Zhong, L. Ma, B. Stenger, W. Liu, H. Li, Deblurring by Realistic Blurring, *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition*

- (CVPR), USA, 2020. (Oral Presentation)
- 61. W. Xiong, Y. He, Y. Zhang, W. Luo, L. Ma, J. Luo, Fine-grained Image-to-Image Transformation towards Visual Recognition, *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, USA, 2020.
- 62. F. Zhong, P. Sun, W. Luo, T. Yan, Y. Wang, AD-VAT+: An Asymmetric Dueling mechanism for learning and understanding Visual Active Tracking, *IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 43, pp. 1467-1482, 2021.
- 63. Z. Liu, W. Luo, B. Wu, X. Yang, W. Liu, K-T. Cheng, Bi-Real Net: Binarizing Deep Network Towards Real-Network Performance, *International Journal of Computer Vision (IJCV)*, vol. 128, pp. 202-219, 2020.
- 64. W. Liu, Z. Piao, J. Min, W. Luo, L. Ma, S. Gao, Liquid Warping GAN: A Unified Framework for Human Motion Imitation, Appearance Transfer and Novel View Synthesis, Proc. of International Conference on Computer Vision (ICCV), Korea, 2019.
- 65. Z. Chen, L. Ma<sup>†</sup>, **W. Luo**<sup>†</sup>, K.-Y. K. Wong, Weakly-Supervised Spatio-Temporally Grounding Natural Sentence in Video, *The 57th Annual Meeting of the Association for Computational Linguistics (ACL)*, Italy, 2019. (Oral Presentation)
- 66. X. Yang\*, W. Luo\*, L. Bao, Y. Gao, D. Gong, S. Zheng, Z. Li, W. Liu, Face Anti-Spoofing: Model Matters, So Does Data, Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), USA, 2019.
- 67. K. Zhang, W. Luo, L. Ma, W. Liu, H. Li, Learning Joint Gait Representation via Quintuplet Loss Minimization, *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, USA, 2019. (Oral Presentation)
- J. Wan, W. Luo, B. Wu, A. Chan, W Liu, Residual Regression with Semantic Prior for Crowd Counting, Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), USA, 2019.
- 69. K. Tang, H. Zhang, B. Wu, W. Luo, W. Liu, Learning to Compose Dynamic Tree Structures for Visual Contexts, *Proc. of IEEE Conf. on Computer Vision and Pattern Recognition (CVPR)*, USA, 2019. (Oral Presentation, Best Paper Nominee)
- 70. W. Luo\*, P. Sun\*, F. Zhong\*, W. Liu, T. Zhang and Y. Wang, End-to-end Active Object Tracking and Its Real-world Deployment via Reinforcement Learning, *IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 42, pp. 1317-1332, 2020.
- 71. F. Zhong, P. Sun, W. Luo, T. Yan, Y. Wang, AD-VAT: An Asymmetric Dueling mechanism for learning Visual Active Tracking, *International Conference on Learning Representations (ICLR)*, 2019.
- 72. K. Zhang, W. Luo†, L. Ma, H. Li, Cousin Network Guided Sketch Recognition via Latent Attribute Warehouse, *Proc. of the Association for the Advancement of Artificial Intelligence (AAAI)*, 2019. (Spotlight Presentation)
- W. Luo, B. Stenger, X. Zhao, T-K. Kim, Trajectories as Topics: Multi-Object Tracking by Topic Discovery, *IEEE Trans. on Image Processing (TIP)*, vol. 28, no. 1, pp. 240-252, 2019.
- 74. K. Zhang, W. Luo, Y. Zhong, L. Ma, W. Liu, H. Li, Adversarial Spatio-Temporal Learning for Video Deblurring, *IEEE Trans. on Image Processing (TIP)*, vol. 28, no. 1, pp. 291-301, 2019.
- 75. Z. Liu, B. Wu, W. Luo, X. Yang, W. Liu, K-T. Cheng, Bi-Real Net: Enhancing the Performance of 1-bit CNNs with Improved Representational Capability and Advanced Training Algorithm, *European Conference on Computer Vision (ECCV)*, Germany, 2018.
- W. Luo\*, P. Sun\*, F. Zhong, W. Liu, T. Zhang and Y. Wang, End-to-end Active Object Tracking via Reinforcement Learning, *International Conference on Machine Learning (ICML)*, Sweden, 2018.
- 77. W. Xiong, W. Luo, L. Ma, W. Liu and J. Luo, Learning to Generate Time-Lapse

- Videos Using Multi-Stage Dynamic Generative Adversarial Networks. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018.
- H. Huang, H. Wang, W. Luo, L. Ma, W. Jiang, X. Zhu, Z. Li, W. Liu, Real-Time Neural Style Transfer for Videos. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2017.
- 79. W. Luo, B. Stenger, X. Zhao, T-K. Kim. Automatic Topic Discovery for Multiobject Tracking. *Proc. of the Association for the Advancement of Artificial Intelli*gence (AAAI), 2015. (Oral Presentation)
- 80. W. Luo, T-K. Kim, B. Stenger, X. Zhao, R. Cipolla. Bi-label Propagation for Generic Multiple Object Tracking. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2014.
- 81. X. Zhao, T-K. Kim, **W. Luo**. Unified Face Analysis by Iterative Multi-Output Random Forests. *IEEE Conference on Computer Vision and Pattern Recognition* (*CVPR*), 2014.
- 82. W. Luo, T-K. Kim. Generic Object Crowd Tracking by Multi-Task Learning. British Machine Vision Conference (BMVC), 2013.
- 83. W. Hu, X. Zhou, W. Li, W. Luo, X. Zhang, S. Maybank. Active Contour-Based Visual Tracking by Integrating Colors, Shapes and Motions. *IEEE Trans. on Image Processing (TIP)*, vol. 22, no. 5, pp. 1778-1792, 2013.
- 84. W. Hu, X. Li, W. Luo, X. Zhang, S. Maybank, Z. Zhang. Single and Multiple Object Tracking Using Log-Euclidean Riemannian Subspace and Block-Division Appearance Model. *IEEE Trans. on Pattern Analysis and Machine Intelligence (TPAMI)*, vol. 34, no. 12, pp. 2420-2440, 2012.
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### Professional Service

**Associate Editor**: Neurocomputing (Dec 2024 - current), IET Computer Vision (Dec 2024 - current)

Guest Editor: CVIU (Sep 2020 - Sep 2021)

Area Chair: ICML 2025, IJCAI 2025, IJCNN 2025, BMVC 2024

Senior Program Committee: IJCAI (2024, 2023, 2021), AAAI (2025, 2024, 2022)

Journal Reviewer: TPAMI, TIP, CSUR, TNNLS, TMM, TCSVT, PR

Conference Reviewer: ICML, NeurIPS, CVPR, ACL, ECCV, ICCV, BMVC, AAAI, IJCAI, ACM MM, WACV

Talks

- Shenzhen University, hosted by Dr. Xu Wang, Dec, 2024.
- Zhejiang University, hosted by Dr. 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
- Top 2% Scientists Worldwide, 2023 & 2024.
- ACM China Rising Star (Guangzhou Chapter), 2022.
- CVPR Best Paper Nominee, 2019.

#### 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)