# Huibing Wang

Associate Professor — School of Information Science & Technology, Dalian Maritime University, China

huibing.wang@dlmu.edu.cn

## Research Directions

Artificial Intelligence; Underwater Robots; Large Model Technology; Computer Vision

## Education and Work Experience

**Ph.D. Candidate (Joint Program)** *2016.10–2017.09*
University of Adelaide, Australia
Computer Science and Technology

**Ph.D. in Computer Application Technology** *2012.09–2018.06*
Dalian University of Technology, Dalian, China

**Postdoctoral Researcher** *2018.12–2020.12*
Dalian Maritime University, Dalian, China
School of Information Science & Technology

**Associate Professor** *2020.12–Present*
Dalian Maritime University, Dalian, China
School of Information Science & Technology

## Latest Academic Papers

1. Wenzhe Liu, Jiongcheng Zhu, Da Liu, Yong Zhang, **Huibing Wang***, *Dynamic Fusion Network Driven Private-Consensus Learning for Multiview Clustering*, IEEE Transactions on Computational Social Systemsm, 2026.
2. Jinjia Peng, Jican Tan, Zeze Tao, Jiazuo Yu, **Huibing Wang***. *Dynamic Magic: Unleashing Restricted Knowledge for Lifelong Person Re-Identification*. IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2026.
3. Yimin Jiang, **Huibing Wang***, et al. *Spatiotemporal Consensus with Scene Priorfor Unsupervised Domain Adaptive Person Search.* International Conference on Neural Information Processing Systems (NeurIPS), 2025.
4. Jiqing Zhang, Xin Yang, Haoming Tang, Yuanchen Wang, Baocai Yin, **Huibing Wang***, *Effcient Vision Transformer with Token Sparsifcation for Event-based Obiect Tracking.* International Journal of Computer Vision (IJCV), 2026, 134(2): 75.
5. Linfeng Qi, **Huibing Wang***, et al. *Localization-Anchored Instance Discriminationfor Domain Adaptive Person Search.* AAAI Conference on Artificial Intelligence (AAAI), 2026.
6. Linfeng Qi, **Huibing Wang***, et al. *Instance-Guided Scene Adaptationfor Unsupervised Person Search.* AAAI Conference on Artificial Intelligence (AAAI), 2026.
7. Zeze Tao, Jinjia Peng, **Huibing Wang***, et al. *Prompting Adversarial Transferability via Path Flatness Attack*. AAAI Conference on Artificial Intelligence (AAAI), 2026.
8. Mingze Yao, Zhiying Jiang, Xianping Fu, **Huibing Wang***, et al. *Conditional Prompt Learning via Degradation Perception for Underwater Image Enhancement*. AAAI Conference on Artificial Intelligence (AAAI), 2026.
9. Boyu Cai, **Huibing Wang***. *Focus More on What? Guiding Multi-Task Trainingfor End-to-End Person Search.* IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2025.
10. Jinjia Peng, **Huibing Wang***, et al. *Boosting Adversarial Transferability via Residual Perturbation Attack.* International Conference on Computer Vision (ICCV), 2025.
11. Jinjia Peng, Songyu Zhang, **Huibing Wang***. *CDE-Learning: Camera Deviation Elimination Learningfor Unsupervised Person Re-identification*. AAAI Conference on Artificial Intelligence (AAAI), 2025.
12. Luyan Cui, **Huibing Wang***, et al. *Dual-Constraint Multi-view Fuzzy Clustering with Scalable Anchor Graph Learning.* ACM International Conference on Multimedia (ACM MM), 2025.
13. Yawei Chen, **Huibing Wang***, et al. *Anchor Learning with Potential Cluster Constraintsfor Multi-view Clustering.* AAAI Conference on Artificial Intelligence (AAAI), 2025.
14. Linfeng Qi, **Huibing Wang***, et al. *Unsupervised Domain Adaptive Person Search via Dual Self-Calibration.* AAAI Conference on Artificial Intelligence (AAAI), 2025.
15. Mingze Yao, **Huibing Wang***, et al. *Between/Within View Information Completingfor Tensorial Incomplete Multi-view Clustering*. IEEE Transactions on Multimedia (TMM), 2025. (ESI Highly Cited Paper)

16. Yuehan Chen, Jiqing Zhang, Yudong Li, Haoming Tang, **Huibing Wang***, et al. *Fusion-based Channel-wise Isotropic Convergent Real-time Underwater Image Enhancement.* IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2025.

17. **Huibing Wang***, et al. *Manifold-based Incomplete Multi-view Clustering via Bi-Consistency Guidance.* IEEE Transactions on Multimedia (TMM), 2024. (ESI Hot Paper)

18. **Huibing Wang***, et al. *Graph-Collaborated Auto-Encoder Hashingfor Multi-view Binary Clustering.* IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2024. (ESI Highly Cited Paper)

19. Yimin Jiang, **Huibing Wang***, et al. *Scene-Adaptive Person Search via Bilateral Modulations*. International Joint Conference on Artificial Intelligence (IJCAI), 2024.

20. Tianxiang Cui, **Huibing Wang***, et al. *Fast One-Stage Unsupervised Domain Adaptive Person Search.* International Joint Conference on Artificial Intelligence (IJCAI), 2024.

21. Jinjia Peng, Pengpeng Song, Hui Li, **Huibing Wang***. *ReFID: Reciprocal Frequency-aware Generalizable Person Re-identification via Decomposition and Filtering*. ACM International Conference on Multimedia (ACM MM), 2024.

22. Jinjia Peng, **Huibing Wang***. *Adaptive Memorization with Group-aware Labelsfor Unsupervised Person Re-identification.* IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2023.

23. **Huibing Wang***, et al. *Graph-Collaborated Auto-Encoder Hashingfor Multi-view Binary Clustering.* IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2023.

24. **Huibing Wang***, et al. *Towards adaptive consensus graph: multi-view clustering via graph collaboration*. IEEE Transactions on Multimedia (TMM), 2022.

25. Guangqi Jiang, Jinjia Peng, **Huibing Wang***, et al. *Tensorial Multi-view Clustering via Low-rank Constrained High-order Graph Learning*. IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2022.

26. Xiangzhu Meng, Lin Feng, Chonghui Guo, **Huibing Wang***, et al. *A Unified Framework Based on Graph Consensus Term for Multiview Learning*. IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2022.

27. **Huibing Wang***, et al. *Learning multiple semantic knowledgefor cross-domain unsupervised vehicle re-identification.* IEEE International Conference on Multimedia and Expo (ICME), 2021.

28. **Huibing Wang***, et al. *Kernelized multiview subspace analysis by self-weighted learning*. IEEE Transactions on Multimedia (TMM), 2020.

29. **Huibing Wang***, et al. *Attribute-guidedfeature learning networkfor vehicle reidentification*. IEEE Transactions on Multimedia (TMM), 2020.

30. Jinjia Peng, Yang Wang, **Huibing Wang***, et al. *Unsupervised vehicle re-identification with progressive adaptation.* International Joint Conference on Artificial Intelligence (IJCAI), 2020.

31. **Huibing Wang***, et al. *Semantic Discriminative Metric Learningfor Image Similarity Measurement.* IEEE Transactions on Multimedia (TMM), 2016.

***More than 120 publications in total; 6 ESIHighly Cited Papers; 2 ESI Hot Paper***

---

## Scientific Research Item

1. **National Natural Science Foundation of China (General Program)** *2026.01–2029.12*

Research on Underwater 3D Panoramic Construction Method for Multi-modal Data Missing. *(PI)*

2. **Equipment Development Department (Comprehensive ResearchKey Project)** *2026.01–2027.12*

Large Model-based **** System. *(PI)*

3. **National Key R&D Program (Sub-project)** *2025.01–2027.12*

Key Technologies and Demonstration for Resident Seafloor Facility Autonomous Inspection & Manipulation Robot. *(PI)*

4. **Dalian Excellent Youth Fund** *2024.01–2025.12*

Research on Underwater Environmental Perception Method Based on Multi-modal Fusion. *(PI)*

5. **Liaoning Provincial Natural Science Foundation (General Program)** *2024.09–2026.08*

Research on Optical Visual Environment Perception Technology for Underwater Robots. *(PI)*

6. **Dalian Science and Technology Innovation Application Basic Project** *2022.01–2025.12*

Research on Key Technologies for Integrated Perception of Farmed Sea Cucumbers and Environment. *(PI)*

7. **National Natural Science Foundation of China (Young Scientists Fund)** *2021.01–2023.12*

Research on Target Recognition Method for Underwater Robots Based on Multi-source Information Fusion. *(PI)*

8. **Liaoning Provincial Natural Science Foundation (Youth Program)** *2021.06–2023.06*

Research on Target Recognition Algorithm for Underwater Robots Based on Multi-source Data. *(PI)*

8. **Liaoning Provincial Department of Education Basic Research Fund** *2022.02–2024.01*

Research on Key Technologies for Underwater Fishing Robot Clusters in Marine Ranch Construction. *(PI)*

Research and Application Demonstration of Optical Field-assisted Products and Training Platforms. *(PI)*

## Inventive Patents (Representative)

1. *Underwater Halo Image Correction via Retinex Decomposition and Restoration.* CN118096609A.
2. *Person Search via Feature Fusion-based Fine-grained Image Generation.* CN116453168A.
3. *Binary Multi-view Clustering via Low-rank Affinity Graph Learning.* CN116778206A.
4. *Multi-view Clustering via Sparse/Low-rank Constraints and Adaptive Tensor Partition.* CN117056751A.
5. *Video Question Answering via Cascaded Transformer with Dynamic Attention.* CN118503479A.

---

## Honors & Awards

World's Top 2% Scientists (Stanford University, Elsevier) (2024,2025)
First Prize, China Industry-University-Research Cooperation Innovation Achievements (2021)
National Doctoral Scholarship (Ministry of Education) (2015, 2016)
Second Prize, National Underwater Robot Target Grasping Competition (Target Recognition Online Group) (2019)