



Yongxin Wang

Curriculum Vitae

PERSONAL DETAILS

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RESEARCH INTERESTS

- **Machine Learning:** hashing, metric learning, feature learning
- **Computer Vision:** multimedia analysis, information retrieval, image classification

EDUCATION

- **Ph.D. Computer Science** 2017-2021
Shandong University
Advisor: Prof. Xin-Shun Xu
- **M.S. Computer Science** 2014-2017
Shandong Normal University
Advisor: Prof. Huaxiang Zhang
- **B.S. Computer Science** 2010-2014
Shandong Normal University
Thesis Advisor: Prof. Huaxiang Zhang

PROFESSIONAL EXPERIENCE

- **Associate professor** since 2021
Shandong Jianzhu University
School of Computer Science and Technology

SELECTED PUBLICATIONS

- **Fast cross-modal hashing with global and local similarity embedding.** [pdf][code]
 - Yongxin Wang, Zhen-Duo Chen, Xin Luo, Rui Li, and Xin-Shun Xu.
 - IEEE Trans. on Cybernetics, 2021, early access.
 - CCF-B Journal, SCI JCR Q1, IF=11.448.
- **BATCH: A scalable asymmetric discrete cross-modal hashing.** [pdf][code]
 - Yongxin Wang, Xin Luo, Liqiang Nie, Jingkuan Song, Wei Zhang, and Xin-Shun Xu.
 - IEEE Trans. on Knowledge and Data Engineering, 2021.
 - CCF-A Journal, SCI JCR Q1, IF=6.977.
- **High-dimensional sparse cross-modal hashing with fine-grained similarity embedding.** [pdf]
 - Yongxin Wang, Zhen-Duo Chen, Xin Luo, and Xin-Shun Xu.

- Proc. Web Conf. (WWW), 2021, pp. 2900-2909.
- [CCF-A Conference, full paper.](#)
- **Label embedding online hashing for cross-modal retrieval.** [pdf][code]
 - Yongxin Wang, Xin Luo, and Xin-Shun Xu.
 - Proc. ACM Multimedia Conf. (ACM MM), 2020, pp. 871-879.
 - [CCF-A Conference, full paper.](#)
- **Label enhancement discrete cross-modal hashing method (In Chinese).**
 - Yongxin Wang, Jie-Ru Tian, Zhen-Duo Chen, Xin Luo, and Xin-Shun Xu.
 - Journal of Software, 2021, accepted.
 - [CCF-A Chinese Journal.](#)
- **Ranking-based supervised discrete cross-modal hashing (In Chinese).**[pdf]
 - Hui-Qiong Li, Yongxin Wang, Zhen-Duo Chen, Xin Luo, and Xin-Shun Xu.
 - Chinese Journal of Computers, vol. 44, no. 8, pp. 1620-1635, 2021.
 - [CCF-A Chinese Journal.](#)
- **Discrete online cross-modal hashing.** [pdf][code]
 - Yu-Wei Zhan, Yongxin Wang, Yu Sun, Xiao-Ming Wu, Xin Luo and Xin-Shun Xu.
 - Pattern Recognition, vol. 122, pp. 108262, 2021.
 - [CCF-B Journal, SCI JCR Q1, IF=7.740.](#)
- **Fine-grained hashing with double filtering.** [pdf][code]
 - Zhen-Duo Chen, Xin Luo, Yongxin Wang, Shanqing Guo, and Xin-Shun Xu.
 - IEEE Transactions on Image Processing, vol. 31, pp. 1671-1683, 2022.
 - [CCF-A Journal, SCI JCR Q1, IF=10.856.](#)
- **Weakly-supervised online hashing.** [pdf][code]
 - Yu-Wei Zhan, Xin Luo, Yu Sun, Yongxin Wang, Zhen-Duo Chen, and Xin-Shun Xu.
 - Proc. Int. Conf. Multimedia and Expo. (ICME), 2021, pp. 1-6.
 - CCF-B Conference, full paper.
- **Supervised hierarchical deep hashing for cross-modal retrieval.** [pdf][code]
 - Yu-Wei Zhan, Xin Luo, Yongxin Wang, and Xin-Shun Xu.
 - Proc. ACM Multimedia Conf. (ACM MM), 2020, pp. 3386-3394.
 - [CCF-A Conference, full paper.](#)
- **A two-step cross-modal hashing by exploiting label correlations and preserving similarity in both steps.** [pdf]
 - Zhen-Duo Chen, Yongxin Wang, Hui-Qiong Li, Xin Luo, Liqiang Nie, Xin-Shun Xu.
 - Proc. ACM Multimedia Conf. (ACM MM), 2019, pp. 1694-1702.
 - [CCF-A Conference, full paper.](#)
- **SDMCH: Supervised discrete manifold-embedded cross-modal hashing.** [pdf]
 - Xin Luo, Xiao-Ya Yin, Liqiang Nie, Xuemeng Song, Yongxin Wang, Xin-Shun Xu.
 - Proc. Int. Joint Conf. Artif. Intell. (IJCAI), 2018, pp. 2518-2524.
 - [CCF-A Conference, full paper.](#)
- **Sparse manifold embedded hashing for multimedia retrieval.** [pdf]
 - Yongxin Wang, Xin Luo, Huaxiang Zhang, and Xin-Shun Xu.
 - Proc. Int. Conf. Data Eng. Workshops (ICDEW), 2019, pp. 312-318.
 - CCF-A Conference Workshops, full paper.
- **A weighted sparse neighbourhood-preserving projections for face recognition.**
 - Yongxin Wang, Huaxiang Zhang, and Feng Yang.
 - IETE Journal of Research, vol. 63, no. 3, pp. 358-367, 2017.
 - SCI JCR Q3, IF=2.333.

SUBMITTED & PREPRINTS

- **A high-dimensional sparse hashing framework for cross-modal retrieval.**
 - Yongxin Wang, Zhen-Duo Chen, Xin Luo, Xin-Shun Xu.
 - Submitted to IEEE Trans. on Knowledge and Data Engineering, 2021. Under review.
 - CCF-A Journal, SCI JCR Q1, IF=6.977.
- **THOR: Three-step hashing for online cross-modal retrieval.** [code]
 - Yu-Wei Zhan, Yongxin Wang, Zhen-Duo Chen, Xin Luo, Liqiang Nie, Xin-Shun Xu.
 - Submitted to IEEE Trans. on Image Processing, 2021. Under review.
 - CCF-A Journal, SCI JCR Q1, IF=10.856.
- **DICH: Towards incremental learning for deep hashing based cross-modal retrieval.** [code]
 - Yu Sun, Xin Luo, Yu-Wei Zhan, Yongxin Wang, Zhen-Duo Chen, Hui Zhang, Xin-Shun Xu.
 - Submitted to IEEE Trans. on Neural Networks and Learning Systems. Under review.
 - CCF-B Journal, SCI JCR Q1, IF=10.451.
- **Diagnose like doctors: Weakly-supervised fine-grained classification of breast cancer.**
 - Jie-Ru Tian, Yongxin Wang, Zhen-Duo Chen, Xin Luo, Xin-Shun Xu.
 - Submitted to ACM Trans. Intelligent Systems and Technology, 2022. Under review.
 - SCI JCR Q1, IF=4.654.
- **ViT-FOD: A vision transformer based fine-grained object discriminator.**
 - Zi-Chao Zhang, Zhen-Duo Chen, Yongxin Wang, Xin Luo, Xin-Shun Xu.
 - Submitted to Proc. IEEE Conf. Comput. Vis. Pattern Recognit., 2022. Under review.
 - CCF-A Conference, full paper.
- **What misleads you to wrong results? A fine-grained image classification method with misleading regions mining and correcting.**
 - Zhen-Duo Chen, Zi-Chao Zhang, Xin Luo, Yongxin Wang, Xin-Shun Xu.
 - Submitted to Proc. Int. Joint Conf. Artif. Intell., 2022. Under review.
 - CCF-A Conference, full paper.

PROJECTS

- Research start-up fund of Shandong Jianzhu University, since 2021

SERVICES

- **Reviewer for journals**
 - IEEE Transactions on Multimedia
 - IEEE Transactions on Knowledge and Data Engineering
 - IEEE Transactions on Circuits and Systems for Video Technology
- **Reviewer for conferences**
 - Proc. ACM Int. Conf. Inf. Knowl. Manag. (CIKM) 2021 - PC Member

AWARDS

- Doctoral Dissertation Award, ACM Jinan, 2021
- Academic Star of School of Software, Shandong University, 2021

- Dean Scholarship in School of Science and Technology, Shandong University, 2020
- Outstanding Graduates of Shandong Province, 2017
- Outstanding Academic Papers of 2014, Shandong Computer Society, 2014