



Yongxin Wang

Curriculum Vitae

PERSONAL DETAILS

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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

RESEARCH INTERESTS

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

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 Transactions on Cybernetics, 2021, early access.
 - CCF-B Journal, SCI JCR Q1, IF=11.448.
- **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.
- **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 Transactions on Knowledge and Data Engineering, 2020, early access.
 - CCF-A Journal, SCI JCR Q1, IF=6.977.

- **Ranking-based supervised discrete cross-modal hashing (In Chinese).**
 - 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.
- **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. accepted.
 - 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

- **Label enhancement discrete cross-modal hashing method (In Chinese).**
 - Yongxin Wang, Jie-Ru Tian, Zhen-Duo Chen, Xin Luo, and Xin-Shun Xu.
 - Submitted to Ruan Jian Xue Bao/Journal of Software, 2021. Under review.
 - CCF-A Chinese Journal.
- **Discrete online cross-modal hashing.** [code]
 - Yu-Wei Zhan, Yongxin Wang, Yu Sun, Xiao-Ming Wu, Xin Luo and Xin-Shun Xu.
 - Submitted to Pattern Recognition, 2021. Under review.
 - CCF-B Journal, SCI JCR Q1, IF=7.740.
- **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 Transactions on Image Processing, 2021. Under review.
 - CCF-A Journal, SCI JCR Q1, IF=10.856.
- **Fine-grained hashing with double filtering.** [code]
 - Zhen-Duo Chen, Xin Luo, Yongxin Wang, Shanqing Guo, and Xin-Shun Xu.
 - Submitted to IEEE Transactions on Image Processing, 2020. Under review.
 - CCF-A Journal, SCI JCR Q1, IF=10.856.

- **Fast label-preferred hashing for cross-modal retrieval.**

- Peng-Fei Zhao, Yu-Wei Zhan, Zhen-Duo Chen, Yongxin Wang, Zhi-Wen Wang, Xin Luo and Xin-Shun Xu.
- Submitted to Proc. ACM Int. Conf. Inf. Knowl. Manag. (CIKM), 2021. Under review.
- CCF-B Conference, full paper.

ONGOING WORK

- **Histological image analysis.**
- **Cross-modal hashing.**

SERVICES

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

AWARDS

- Academic Star of School of Software, Shandong University, 2021
- Dean Scholarship in School of Science and Technology, Shandong University, 2020
- First-Class Academic Scholarship, Shandong University, 2020
- Outstanding Graduates of Shandong Province, 2017
- Outstanding Graduates of Shandong Normal University, 2017
- The Academic Top Ten of Shandong Normal University, 2017
- First-Class Academic Scholarship, Shandong Normal University, 2016
- First-Class Academic Scholarship, Shandong Normal University, 2015
- Outstanding Academic Papers of 2014, Shandong Computer Society, 2014
- National Encouragement Scholarship, Shandong Normal University, 2012

SKILLS

- **Languages:** Chinese (native), English (fluent)
- **Software:** MATLAB, Python, PyTorch, C++, L^AT_EX
- **Others:** Graphic Design, Cooking, Badminton