



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.A. Computer Science** 2010-2014
Shandong Normal University
Thesis Advisor: Prof. Huaxiang Zhang

RESEARCH INTERESTS

- *Information Retrieval: multi-media retrieval*
- *Machine Learning: hashing, metric learning*
- *Computer Vision: image classification*

SELECTED PUBLICATIONS

- **Fast cross-modal hashing with global and local similarity embedding.**
 - Yongxin Wang, Zhen-Duo Chen, Xin Luo, Rui Li, and Xin-Shun Xu.
 - IEEE Transactions on Cybernetics, 2021, accepted.
 - **CCF-B Journal, SCI JCR Q1, IF=11.079.**
- **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, accepted.
 - **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, oral.**
- **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, spotlight.**

- **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 (TKDE), 2020.
 - CCF-A Journal, SCI JCR Q1, IF=4.935.
- **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, oral.
- **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, oral.
- **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=1.125.

SUBMITTED & PREPRINTS

- **Label enhancement discrete cross-modal hashing method.**
 - 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.
- **THOR: Three-step hashing for online cross-modal retrieval.**
 - Yu-Wei Zhan, Yongxin Wang, Zhen-Duo Chen, Xin Luo and Xin-Shun Xu.
 - Submitted to Proc. Int. ACM SIGIR Conf. Res. Develop. Inf. Retr. (SIGIR), 2021. Processing.
 - CCF-A Conference, full paper.
- **Fine-grained hashing with double filtering.**
 - Zhen-Duo Chen, Xin Luo, Yongxin Wang, Shanqing Guo, and Xin-Shun Xu.
 - Submitted to IEEE Trans. Image Process. (TIP), 2020. Under review.
 - CCF-A Journal, SCI JCR Q1, IF=9.340.
- **Weakly-supervised online hashing.**
 - Yu-Wei Zhan, Xin Luo, Yu Sun, Yongxin Wang, Zhen-Duo Chen, and Xin-Shun Xu.
 - Submitted to Proc. Int. Conf. Multimedia and Expo. (ICME), 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 Multimedia

AWARDS

- *First Class of Academic Scholarship, Shandong University, 2020*
- *Outstanding Graduate of Shandong Province, 2017*
- *The Academic Top Ten of Shandong Normal University, 2017*
- *First Class of Academic Scholarship, Shandong Normal University, 2016*
- *First Class of 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*