



# Yongxin Wang

*Curriculum Vitae*

## PERSONAL DETAILS

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## EDUCATION

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- **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

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- **Machine Learning:** hashing, metric learning, artificial intelligence security
- **Media Analysis:** multimedia retrieval, media content analysis, media security

## SELECTED PUBLICATIONS

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- **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=11.079.**
- **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.**
- **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=4.935.**

- **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, 2021. accepted.
  - 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=1.125.

## SUBMITTED & PREPRINTS

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- **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.
- **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. Under review.
  - CCF-A Conference, full paper.
- **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=9.340.

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

- Peng-Fei Zhao, Zhen-Duo Chen, Yongxin Wang, Zhi-Wen Wang, Xin Luo and Xin-Shun Xu.
- Submitted to Proc. ACM Int. Conf. Multimedia Retr. (ICMR), 2021. Under review.
- CCF-B Conference, full paper.

## **ONGOING WORK**

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

## **SERVICES**

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- **Reviewer for journals**
  - IEEE Transactions on Knowledge and Data Engineering
  - IEEE Transactions on Multimedia

## **AWARDS**

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- 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**

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- **Languages:** Chinese (native), English (fluent)
- **Software:** MATLAB, Python, PyTorch, C++, L<sup>A</sup>T<sub>E</sub>X
- **Others:** Graphic Design, Cooking, Badminton