# Yongxin Wang
*Curriculum Vitae*

## PERSONAL DETAILS

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|---|---|
| *Address* | Fengming Road 1000, Jinan 250101, China |
| *Phone* | +86-18766172627 |
| *E-mail* | yxinwang@hotmail.com |
| *Website* | https://yxinwang.github.io |

## 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.
- <span style="color:red">CCF-A Conference, full paper.</span>

- **Label embedding online hashing for cross-modal retrieval.** [pdf][code]
  - <u>Yongxin Wang</u>, Xin Luo, and Xin-Shun Xu.
  - Proc. ACM Multimedia Conf. (ACM MM), 2020, pp. 871-879.
  - <span style="color:red">CCF-A Conference, full paper.</span>

- **Label enhancement discrete cross-modal hashing method (In Chinese).**
  - <u>Yongxin Wang</u>, Jie-Ru Tian, Zhen-Duo Chen, Xin Luo, and Xin-Shun Xu.
  - Journal of Software, 2021, accepted.
  - <span style="color:red">CCF-A Chinese Journal.</span>

- **Ranking-based supervised discrete cross-modal hashing (In Chinese).**[pdf]
  - Hui-Qiong Li, <u>Yongxin Wang</u>, Zhen-Duo Chen, Xin Luo, and Xin-Shun Xu.
  - Chinese Journal of Computers, vol. 44, no. 8, pp. 1620-1635, 2021.
  - <span style="color:red">CCF-A Chinese Journal.</span>

- **Discrete online cross-modal hashing.** [pdf][code]
  - Yu-Wei Zhan, <u>Yongxin Wang</u>, Yu Sun, Xiao-Ming Wu, Xin Luo and Xin-Shun Xu.
  - Pattern Recognition, vol. 122, pp. 108262, 2021.
  - <span style="color:red">CCF-B Journal, SCI JCR Q1, IF=7.740.</span>

- **Fine-grained hashing with double filtering.** [code]
  - Zhen-Duo Chen, Xin Luo, <u>Yongxin Wang</u>, Shanqing Guo, and Xin-Shun Xu.
  - IEEE Transactions on Image Processing, 2021, accepted.
  - <span style="color:red">CCF-A Journal, SCI JCR Q1, IF=10.856.</span>

- **Weakly-supervised online hashing.** [pdf][code]
  - Yu-Wei Zhan, Xin Luo, Yu Sun, <u>Yongxin Wang</u>, 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, <u>Yongxin Wang</u>, and Xin-Shun Xu.
  - Proc. ACM Multimedia Conf. (ACM MM), 2020, pp. 3386-3394.
  - <span style="color:red">CCF-A Conference, full paper.</span>

- **A two-step cross-modal hashing by exploiting label correlations and preserving similarity in both steps.** [pdf]
  - Zhen-Duo Chen, <u>Yongxin Wang</u>, Hui-Qiong Li, Xin Luo, Liqiang Nie, Xin-Shun Xu.
  - Proc. ACM Multimedia Conf. (ACM MM), 2019, pp. 1694–1702.
  - <span style="color:red">CCF-A Conference, full paper.</span>

- **SDMCH: Supervised discrete manifold-embedded cross-modal hashing.** [pdf]
  - Xin Luo, Xiao-Ya Yin, Liqiang Nie, Xuemeng Song, <u>Yongxin Wang</u>, Xin-Shun Xu.
  - Proc. Int. Joint Conf. Artif. Intell. (IJCAI), 2018, pp. 2518–2524.
  - <span style="color:red">CCF-A Conference, full paper.</span>

- **Sparse manifold embedded hashing for multimedia retrieval.** [pdf]
  - <u>Yongxin Wang</u>, 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.**
  - <u>Yongxin Wang</u>, 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.
- **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. In processing.
  - CCF-A Conference, full paper.
- **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 Proc. Int. Joint Conf. Artif. Intell., 2022. In processing.
  - 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