Zhihui Li | Curriculum Vitae

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Artificial Intelligence ★ Machine Learning ★ Multimedia

Employment

Beijing Etrol Technologies Co., Ltd **Beijing, China**
Data Analyst *Jul. 2008–NOW*

– Interpreting data, analyzing results using statistical techniques and providing ongoing reports.

– Developing and implementing databases, data collection systems, data analytics and other strategies that optimize statistical efficiency and quality.

– Acquiring data from primary or secondary data sources and maintaining databases/data analysis systems.

– From August 2015, I focus on machine learning and its applications to multimedia and computer vision. Remote Mentor: Dr. Xiaojun Chang (Carnegie Mellon University)

Education

Academic Qualifications

Beijing University of Posts and Telecommunications **Beijing, China**
Ranked 7/130, GPA: 3.27/4 *Sep. 2004–Jun. 2008*

Technical and Personal skills

○ **Programming Languages:** Proficient in: Python, R and SQL.

○ **Industry Software Skills:** Matlab (Advanced), Ansys (Intermediate), LTspice (Intermediate), Most MS Office products including MS project and MS access (Advanced).

Publications

Journal

1. **Zhihui Li**, Feiping Nie, Xiaojun Chang, and Yi Yang. *Beyond Trace Ratio: Weighted Harmonic Mean of Trace Ratios for Multiclass Discriminant Analysis*. IEEE Transactions on Knowledge and Data Engineering, DOI:10.1109/TKDE.2017.2728531, 2017. **ERA Rank A, CORE Rank A, SJR Q1, Web of Science Q1**, 2016 IF: 3.438.

2. Xiaowei Xue, Feiping Nie, **Zhihui Li**, Sen Wang, Xue Li, and Min Yao. *A Multi-View Learning Framework with A Linear Computational Cost*. IEEE Transactions on Cybernetics, 2017. **ERA Rank A, CORE Rank A, SJR Q1, Web of Science Q1**, 2016 IF: 7.384.

3. Minnan Luo, Xiaojun Chang, **Zhihui Li**, Liqiang Nie, Alexander G. Hauptmann, and Qinghua Zheng. *Simple to Complex Cross-modal Learning to Rank*. Computer Vision and Image Understanding, DOI:10.1016/j.cviu.2017.07.001, 2017. **ERA Rank A, CORE Rank A, SJR Q1, Web of Science Q2**, 2016 IF: 2.498.

4. Yan-Shuo Chang, Feiping Nie, **Zhihui Li**, Xiaojun Chang and Heng Huang. *Refined Spectral Clustering via Embedded Label Propagation*. Neural Computation, 2017. **ERA Rank A, CORE Rank A, SJR Q1, Web of Science Q2**, 2016 IF: 1.938.

5. Huan Liu, Qinghua Zheng, **Zhihui Li**, Tao Qin, and Lei Zhu. *An Efficient Multi-Feature SVM Solver for Complex Event Detection*. Multimedia Tools and Applications, 2017. **ERA Rank B, CORE Rank B, SJR Q1, Web of Science Q2**, 2016 IF: 1.53.

6. Caixia Yan, Minnan Luo, Huan Liu, **Zhihui Li**, and Qinghua Zheng. *Top-k Multi-class SVM using Multiple Features*. Information Sciences, 2017. **ERA Rank B, CORE Rank B, SJR Q1, Web of Science Q1**, 2016 IF: 4.832.

7. Xiaowei Zhao, Zhigang Ma, Zhi Li, and **Zhihui Li**. *Joint Concept Correlation and Feature-Concept Relevance Learning for Multi-Label Classification*. Neural Computation, 2017. **ERA Rank A, CORE Rank A, SJR Q1, Web of Science Q2**, 2016 IF: 1.938. [Minor Revision]

Conference

1. Jingjing Li, Ke Lu, Lei Zhu, and **Zhihui Li**. *Locality-Constrained Transfer Coding for Heterogeneous Domain Adaptation*, Australasian Database Conference 2017.

2. Luyao Liu, Lei Zhu, and **Zhihui Li**. *Learning Robust Graph Hashing for Efficient Similarity Search*, Australasian Database Conference 2017.

Preprint

1. De Cheng, Yihong Gong, **Zhihui Li**, Weiwei Shi, Alexander G. Hauptmann, and Nanning Zheng. *Deep Feature Learning via Structured Graph Laplacian Embedding for Person Re-Identification*. ArXiv:1707.07791, 2017. [Submitted to Pattern Recognition]

2. Lingling Zhang, Minnan Luo, Feiping Nie, **Zhihui Li**, Jun Liu, and Qinghua Zheng. *Large Scale Robust Semi-supervised Classification*. [Submitted to IEEE Transactions on Cybernetics]

3. Zhiqiang Zeng, **Zhihui Li**, De Cheng, Zhigang Ma, Kun Zhan, and Yi Yang. *Two-Stream Multi-Rate Recurrent Neural Network for Video-Based Pedestrian Re-Identification*. [Submitted to IEEE Transactions on Industrial Informatics]

4. **Zhihui Li**, Lina Yao, Feiping Nie, Dingwen Zhang, and Min Xu. *Multi-rate Gated Recurrent Convolutional Networks for Video-Based Pedestrian Re-Identification*. [Submitted to AAAI 2018]

5. **Zhihui Li**, Feiping Nie, Xiaojun Chang, Zhigang Ma, and Yi Yang. *Balanced Clustering via Exclusive Lasso: A Pragmatic Approach*. [Submitted to AAAI 2018]

Professional Services

Journal Reviewer

- 2016-2017, **Reviewer**, Multimedia Tools and Applications, 2016 IF: 1.53.

- 2016-2017, **Reviewer**, Pattern Recognition Letters, 2016 IF: 1.995.

- 2017, **Reviewer**, IEEE Transactions on Industrial Informatics, 2016 IF: 6.764.

- 2017, **Reviewer**, IEEE Access, 2016 IF: 3.244.

Awards

- 2011, Outstanding Individual, Beijing Etrol Technologies Co., Ltd

- 2008, Second Class Award, Beijing University of Posts and Telecommunications

- 2007, Second Class Award, Beijing University of Posts and Telecommunications

- 2006, Second Class Award, Beijing University of Posts and Telecommunications

- 2005, Second Class Award, Beijing University of Posts and Telecommunications