Jia Zhang

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Research Interests

- Classification: multi-label learning, weakly supervised learning, class-imbalance learning
- Feature selection and sparse representation
- Deep learning: multi-label classification, deep learning on graphs
- Computational methods for optimization
- Knowledge discovery from multiple data sources
- Recommendation systems
- Data mining applications in medicine: TCM health management, drug repositioning, hospital readmission, ASD prediction

Experience

- Sep. 2016–present Ph.D. of Computer Science, Xiamen University, Xiamen, P.R. China. Advisor: Prof. Shaozi Li
- May 2019–Jul. 2019 Visiting Student of Computer Science, City University of Hong Kong, Hong Kong. Advisor: Prof. Kay Chen Tan
- Sep. 2013–Jun. 2016 M.E. of Computer Science, Minnan Normal University, Zhangzhou, P.R. China. Advisor: Prof. Menglei Lin and Prof. Yaojin Lin
- Sep. 2009–Jun. 2013 B.E. of Electronics Science and Technology, Changshu Institute of Technology, Suzhou, P.R. China

Honers & Awards

- CaoDewang Scholarship, Xiamen University, Xiamen, 2019
- Excellent Graduate of Minnan Normal University, Zhangzhou, 2016

Professional Activities

- Journal Reviewer: Pattern Recognition, IEEE Transactions on Neural Networks and Learning Systems, Information Sciences, Knowledge-Based Systems
- Academic Talk and Discussion:

  Entropy-based collaborative filtering algorithm, Aug. 2015, The 15-th Chinese Conference on Machine Learning, Chengdu, P.R. China

Selected Publications

- Jia Zhang, Zhiming Luo, Candong Li, Changen Zhou, Shaozi Li. Manifold regularized discriminative feature selection for multi-label learning. *Pattern Recognition*, 2019, 95: 136-150.
- Jia Zhang, Candong Li, Zhenqiang Sun, Zhiming Luo, Changen Zhou, Shaozi Li. Towards a unified multi-source-based optimization framework for multi-label learning. *Applied Soft Computing*, 2019, 76: 425-435.
- Jia Zhang, Candong Li, Donglin Cao, Yaojin Lin, Songzhi Su, Liang Dai, Shaozi Li. Multi-label learning with label-specific features by resolving label correlations. *Knowledge-Based Systems*, 2018, 159: 148-157.
- Jia Zhang, Candong Li, Yaojin Lin, Youwei Shao, Shaozi Li. Computational drug repositioning using collaborative filtering via multi-source fusion. *Expert Systems with Applications*, 2017, 84: 281-289.
- Jia Zhang, Yaojin Lin, Menglei Lin, Jinghua Liu. An effective collaborative filtering algorithm based on user preference clustering. *Applied Intelligence*, 2016, 45 (2): 230-240.
- Zhenqiang Sun, Jia Zhang, Liang Dai, Candong Li, Changen Zhou, Jiliang Xin, Shaozi Li. Mutual information based multi-label feature selection via constrained convex optimization. *Neurocomputing*, 2019, 329: 447-456.
- Liang Dai, Jia Zhang, Candong Li, Changen Zhou, Shaozi Li. Multi-label feature selection with application to TCM state identification. *Concurrency and Computation: Practice and Experience*, 2018, e4634.
- Jinghua Liu, Yaojin Lin, Menglei Lin, Shunxiang Wu, Jia Zhang. Feature selection based on quality of information. *Neurocomputing*, 2017, 225: 11-22.
- Yaojin Lin, Qinghua Hu, Jia Zhang, Xindong Wu. Multi-label feature selection with streaming labels. *Information Sciences*, 2016, 372: 256-275.