Liping Liu

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EDUCATION

Ph.D., **Oregon State University**, 2016.
Thesis: *Machine Learning Methods in Computational Sustainability*, advised by Thomas G. Dietterich.

M.S., **Nanjing University**, 2009.
Thesis: *Fast Feature Extraction and Incremental Dimensionality Reduction based on Machine Learning Techniques*, advised by Yuan Jiang and Zhi-Hua Zhou.

B.S., **Hebei University of Technology**, 2006.

EXPERIENCE

2016 – 2017, Visiting assistant professor, **Tufts University**.
2016 – 2017, Postdoctoral researcher, **Columbia University**.
2015 summer, Research intern, **IBM T.J. Watson Research**.
2009 – 2010, Developer, **Alibaba**.

RESEARCH INTERESTS

Machine Learning: Classification, Clustering, Graphical Models, Bayesian Analysis

Computational Sustainability: Species distribution modeling, Reserve design

PROFESSIONAL SERVICE

Reviewer for

- Machine Learning
- IEEE Transactions on Knowledge and Data Engineering (TKDE)
- IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)
- Journal of Artificial Intelligence Research (JAIR)
- Journal of Machine Learning Research (JMLR)
- ACM Transactions on Spatial Algorithms and Systems
- International Conference on Machine Learning, 2017

PC member of

- International Joint Conferences on Artificial Intelligence (IJCAI), 2015, 2016, 2017
- AAAI Conference on Artificial Intelligence (AAAI), 2017, 2018

PUBLICATIONS

Liu, L.-P., Blei, M.D.. *Zero-Inflated Exponential Family Embeddings*. In: Proceedings of the 34th International Conference on Machine Learning (ICML'2017).

Liu, L.-P., Dietterich, T.G., Li, N. and Zhou, Z.-H.. *Transductive Optimization of Top k Precision*. In: Proceedings of the 25th International Joint Conference on Artificial Intelligence 2016.

Liu, L.-P., Quanz, B., Xing, D., Deshpande, A. and Liu, X.. *Predicting Weeks-Of-Supply via Sequence Aggregating*. In: Proceedings of the 2015 INFORMS Workshop on Data Mining and Analytics. 2015.

Pei, Y, **Liu, L.-P.** and Fern, X.. *Bayesian Active Clustering with Pairwise Constraints*. In: Proceedings of European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML PKDD'2015).

Liu, L.-P., Sheldon, D. and Dietterich, T.G.. *Gaussian Approximation of Collective Graphical Models.* In: Proceedings of the 31st International Conference on Machine Learning (ICML'2014).

Liu, L.-P. and Dietterich, T.G.. *Learnability of the Superset Label Learning Problem.* In: Proceedings of the 31st International Conference on Machine Learning (ICML'2014).

Liu, L.-P. and Dietterich, T.G.. *A Conditional Multinomial Mixture Model for Superset Label Learning.* In: Proceedings of the 2012 Conference on Neural Information Processing Systems (NIPS'2012).

Liu, L.-P. and Fern, Z. X.. *Constructing Training Set for Outlier Detection.* In: Proceedings of the 12th SIAM International Conference on Data Mining (SDM'2012).

Hutchinson, R., **Liu, L.-P.** and Dietterich, T.G.. *Incorporating Boosted Regression Trees into Ecological Latent Variable Models.* In: Proceedings of the 25th AAAI Conference on Artificial Intelligence (AAAI'2011).

Liu, L.-P., Jiang, Y. and Zhou, Z.-H.. *Least Square Incremental Linear Discriminant Analysis.* In: Proceedings of the 9th IEEE International Conference on Data Mining (ICDM'2009).

Liu, L.-P., Yu, Y., Jiang, Y., and Zhou, Z.-H.. *TEFE: A Time-Efficient Approach to Feature Extraction.* In: Proceedings of the 8th IEEE International Conference on Data Mining (ICDM'2008).

Jiang, Y., **Liu, L.-P.**. *Survey of Data Mining on Data Stream* (in Chinese). Journal of Jiangnan University(Natural Science Edition). pp. 654-657.