

## References

- [1] A. Banerjee and J. Ghosh. Frequency Sensitive Competitive Learning for Balanced Clustering on High-dimensional Hyperspheres. In IEEE Transactions on Neural Networks, 2004.
- [2] N. Bansal, A. Blum and S. Chawla, "Correlation Clustering", 43rd Symposium on Foundations of Computer Science (FOCS 2002), pages 238-247.
- [3] S. Basu, A. Banerjee and R. J. Mooney, "Semisupervised Learning by Seeding", Proc. 19th Intl. Conf. on Machine Learning (ICML-2002), Sydney, Australia, July 2002.
- [4] S. Basu, M. Bilenko and R. J. Mooney, "A Probabilistic Framework for Semi-Supervised Clustering", Proc. 10th ACM SIGKDD Intl. Conf. on Knowledge Discovery and Data Mining (KDD-2004), Seattle, WA, August 2004.
- [5] S. Basu, M. Bilenko and R. J. Mooney, "Active Semi-Supervision for Pairwise Constrained Clustering", Proc. 4th SIAM Intl. Conf. on Data Mining (SDM-2004).
- [6] K. Bennett, P. Bradley and A. Demiriz, "Constrained K-Means Clustering", Microsoft Research Technical Report 2000-65, May 2000.
- [7] De Bie T., Momma M., Cristianini N., "Efficiently Learning the Metric using Side-Information", in Proc. of the 14th International Conference on Algorithmic Learning Theory (ALT2003), Sapporo, Japan, Lecture Notes in Artificial Intelligence, Vol. 2842, pp. 175-189, Springer, 2003. (pdf)(bib)
- [8] M. Bilenko, S. Basu. A Comparison of Inference Techniques for Semi-supervised Clustering with Hidden Markov Random Fields. In Proceedings of the ICML-2004 Workshop on Statistical Relational Learning and its Connections to Other Fields (SRL-2004), Banff, Canada, July 2004
- [9] A. Blum, J. Lafferty, M.R. Rwebangira, R. Reddy, "Semi-supervised Learning Using Randomized Mincuts", International Conference on Machine Learning, 2004.

- [10] M. Charikar, V. Guruswami and A. Wirth, "Clustering with Qualitative Information", Proceedings of the 44th Annual IEEE Symposium on Foundations of Computer Science, 2003.
- [11] H. Chang, D.Y. Yeung. Locally linear metric adaptation for semi-supervised clustering. Proceedings of the Twenty-First International Conference on Machine Learning (ICML), pp.153-160, Banff, Alberta, Canada, 4-8 July 2004.
- [12] D. Cohn, R. Caruana, and A. McCallum, "Semi-supervised clustering with user feedback", Technical Report TR2003-1892, Cornell University, 2003.
- [13] H. Daume and D. Marcu. A Bayesian Model for Supervised Clustering with the Dirichlet Process Prior. In JMLR 6, pp. 1551–1577, 2005.
- [14] I. Davidson, S.S. Ravi, Clustering under Constraints: Feasibility Results and the K-Means Algorithm, SIAM Data Mining Conference 2005.
- [15] I. Davidson, S.S. Ravi, Hierarchical Clustering with Constraints: Theory and Practice, ECML/PKDD 2005.
- [16] I. Davidson, S.S. Ravi, Identifying and Generating Easy Sets of Constraints For Clustering, AAAI 2006.
- [17] I. Davidson, S.S. Ravi, The Complexity of Non-Hierarchical Clustering With Instance and Cluster Level Constraints, *To Appear Journal of Knowledge Discovery and Data Mining*.
- [18] I. Davidson, K. Wagstaff, S. Basu, Measuring Constraint-Set Utility for Partitional Clustering Algorithms, ECML/PKDD 2006.
- [19] E. D. Demaine and N. Immorlica. Correlation Clustering with Partial Information. In Proceedings of the 6th International Workshop on Approximation Algorithms for Combinatorial Optimization Problems and 7th International Workshop on Randomization and Approximation Techniques in Computer Science (RANDOM-APPROX 2003), Princeton, New Jersey, August 24-26, 2003, pages 1-13.

- [20] A. Demiriz, K. Bennett and M.J. Embrechts. Semi-supervised Clustering using Genetic Algorithms. In ANNIE'99 (Artificial Neural Networks in Engineering), November 1999
- [21] A. S. Galanopoulos and S. C. Ahalt. Codeword distribution for frequency sensitive competitive learning with one-dimensional input data. IEEE Transactions on Neural Networks, 7(3):752-756, 1996.
- [22] j M. R. Garey and D. S. Johnson and H. S. Witsenhausen. The complexity of the generalized Lloyd-Max problem. IEEE Transactions on Information Theory, 28(2):255-256, 1982 j
- [23] David Gondek, Shivakumar Vaithyanathan, and Ashutosh Garg Clustering with Model-level Constraints, SIAM International Conference on Data Mining (SDM), 2005.
- [24] David Gondek and Thomas Hofmann Non-Redundant Data Clustering, 4th IEEE International Conference on Data Mining (ICDM), 2004.
- [25] T. F. Gonzalez. Clustering to Minimize the Maximum Intercluster Distance. In Theoretical Computer Science, Vol. 38, No. 2-3, June 1985, pp. 293-306.
- [26] T. Hertz, A. Bar-Hillel, and D. Weinshall. Boosting margin-based distance functions for clustering. ICML 2004.
- [27] Aharon Bar Hillel. Tomer Hertz. Noam Shental. Daphna Weinshall Learning Distance Functions using Equivalence Relations ICML 2003.
- [28] S. D. Kamvar, D. Klein, and C. Manning, "Spectral Learning," IJCAI, 2003.
- [29] D. Klein, S. D. Kamvar and C. D. Manning, "From Instance-Level Constraints to Space-Level Constraints: Making the Most of Prior Knowledge in Data Clustering", *Proc. 19th Intl. Conf. on Machine Learning* (ICML 2002).
- [30] B. Kulis, S. Basu, I. Dhillon, R. J. Mooney, "Semi-supervised Graph Clustering: A Kernel Approach", ICML 2005.

- [31] T. Lange, M. H. C. Law, A. K. Jain and J. M. Buhmann. Learning with Constrained and Unlabelled Data. In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2005.
- [32] M. Law, Alexander Topchy, Anil K. Jain, Model-based Clustering With Probabilistic Constraints, SDM 2005.
- [33] Z. Lu and T. Leen, Semi-supervised Learning with Penalized Probabilistic Clustering. NIPS 2005.
- [34] N. Shental, A. Bar-Hillel, T. Hertz, and D. Weinshall, Computing Gaussian Mixture Models with EM using Side-Information. In Proc. of workshop *The Continuum from labeled to unlabeled data in machine learning and data mining*, ICML 2003.
- [35] M. Schultz and T. Joachims, Learning a Distance Metric from Relative Comparisons, Proceedings of the Conference on Advance in Neural Information Processing Systems (NIPS), 2003.
- [36] Segal, E., Wang, H., and Koller, D. (2003). Discovering molecular pathways from protein interaction and gene expression data. Bioinformatics, 19.
- [37] J. Sinkkonen and S. Kaski. Clustering based on conditional distributions in an auxiliary space. In Neural Computation, 2002 Jan;14(1):217-39.
- [38] A. Strehl, J. Ghosh, R. Mooney. Impact of similarity measures on webpage clustering. AAAI Workshop on AI for Webpage Search, Austin, pp. 58-64, 2000.
- [39] K. Wagstaff and C. Cardie. Clustering with Instance- Level Constraints. In Proc. 17th Intl. Conf. on Machine Learning (ICML 2000), Stanford, CA, June-July 2000, pp. 1103-1110.
- [40] K. Wagstaff, C. Cardie, S. Rogers and S. Schroedl. Constrained K-means Clustering with Background Knowledge. In *ICML 2001*.
- [41] E. Xing, A. Ng, M. Jordan, and S. Russell. Distance metric learning, with application to clustering with side-information. NIPS 15, 2003

- [42] R. Yan, J. Zhang, J. Yang and A. Hauptmann A Discriminative Learning Framework with Pairwise Constraints for Video Object Classification In IEEE Computer Society Conference on Computer Vision and Pattern Recognition(CVPR), 2004.
- [43] Z. Zhang, J.T. Kwok, D.Y. Yeung. Parametric distance metric learning with label information. Proceedings of the Eighteenth International Joint Conference on Artificial Intelligence (IJCAI'03), pp.1450-1452, Acapulco, Mexico, August 2003.
- [44] S. Zhong and J. Ghosh. Scalable, model-based balanced clustering. In SIAM International Conference on Data Mining (SDM-03), pp.71-82, San Francisco, CA, 2003.