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- [1] S. Basu, M. Bilenko, and R. J. Mooney. A probabilistic framework for semi-supervised clustering. In *KDD*, pages 59–68, 2004.
- [2] S. Basu et al. Semi-supervised clustering by seeding. In *ICML*, pages 27–34, 2002.
- [3] P. Berkhin. A survey of clustering data mining techniques. In *Grouping multidimensional data*, pages 25–71. Springer, 2006.
- [4] R. Bhatia. *Matrix analysis*. Springer-Verlag, New York, 1997.
- [5] M. Bilenko, S. Basu, and R. J. Mooney. Integrating constraints and metric learning in semi-supervised clustering. In *ICML*, pages 81–88, 2004.
- [6] B. Boden, M. Ester, and T. Seidl. Density-based subspace clustering in heterogeneous networks. In *ECML/PKDD*, pages 149–164, 2014.
- [7] W. Dinkelbach. On nonlinear fractional programming. *Management Science*, 13(7):492–498, 1967.
- [8] S. Günnemann et al. Subspace clustering meets dense subgraph mining: A synthesis of two paradigms. In *ICDM*, pages 845–850, 2010.
- [9] J. Han, J. Pei, and M. Kamber. *Data mining: concepts and techniques*. Elsevier, 2011.
- [10] M. Ji, Y. Sun, M. Danilevsky, J. Han, and J. Gao. Graph regularized transductive classification on heterogeneous information networks. In *ECML/PKDD*, pages 570–586, 2010.
- [11] S. D. Kamvar, D. Klein, and C. D. Manning. Spectral learning. In *IJCAI*, pages 561–566, 2003.
- [12] B. Kulis, S. Basu, I. S. Dhillon, and R. J. Mooney. Semi-supervised graph clustering: a kernel approach. In *ICML*, pages 457–464, 2005.
- [13] X. Li, B. Kao, Y. Zheng, and Z. Huang. On transductive classification in heterogeneous information networks. In *CIKM*, 2016.
- [14] B. Long, Z. M. Zhang, X. Wu, and P. S. Yu. Spectral clustering for multi-type relational data. In *ICML*, pages 585–592, 2006.
- [15] B. Long, Z. M. Zhang, and P. S. Yu. A probabilistic framework for relational clustering. In *KDD*, pages 470–479, 2007.
- [16] C. Luo, W. Pang, and Z. Wang. Semi-supervised clustering on heterogeneous information networks. In *PAKDD*, pages 548–559, 2014.
- [17] C. D. Manning, P. Raghavan, and H. Schütze. *Introduction to Information Retrieval*. Cambridge University Press, 2008.
- [18] J. J. McAuley et al. Learning to discover social circles in ego networks. In *NIPS*, pages 548–556, 2012.
- [19] M. E. Newman and M. Girvan. Finding and evaluating community structure in networks. *Physical review E*, 69(2):026113, 2004.
- [20] B. Perozzi et al. Focused clustering and outlier detection in large attributed graphs. In *KDD*, pages 1346–1355, 2014.
- [21] Y. Ruan, D. Fuhry, and S. Parthasarathy. Efficient community detection in large networks using content and links. In *WWW*, pages 1089–1098, 2013.
- [22] J. Shi and J. Malik. Normalized cuts and image segmentation. *TPAMI*, 22(8):888–905, 2000.
- [23] I. Stancu-Minasian. *Fractional programming: theory, methods and applications*, volume 409. Springer Science & Business Media, 2012.
- [24] Y. Sun, C. C. Aggarwal, and J. Han. Relation strength-aware clustering of heterogeneous information networks with incomplete attributes. *PVLDB*, 5(5):394–405, 2012.
- [25] Y. Sun, J. Han, X. Yan, P. S. Yu, and T. Wu. Pathsim: Meta path-based top-k similarity search in heterogeneous information networks. *PVLDB*, 4(11):992–1003, 2011.
- [26] Y. Sun, J. Han, P. Zhao, Z. Yin, H. Cheng, and T. Wu. Rankclus: integrating clustering with ranking for heterogeneous information network analysis. In *EDBT*, pages 565–576, 2009.
- [27] Y. Sun, B. Norick, J. Han, X. Yan, P. S. Yu, and X. Yu. Integrating meta-path selection with user-guided object clustering in heterogeneous information networks. In *KDD*, pages 1348–1356, 2012.
- [28] Y. Sun, Y. Yu, and J. Han. Ranking-based clustering of heterogeneous information networks with star network schema. In *KDD*, pages 797–806, 2009.
- [29] J. Tang, M. Qu, M. Wang, M. Zhang, J. Yan, and Q. Mei. Line: Large-scale information network embedding. In *WWW*, pages 1067–1077, 2015.
- [30] H. Tong, C. Faloutsos, and J.-Y. Pan. Fast random walk with restart and its applications. In *ICDM*, pages 613–622, 2006.
- [31] C. Wan et al. Classification with active learning and meta-paths in heterogeneous information networks. In *CIKM*, pages 443–452, 2015.
- [32] M. Wan, Y. Ouyang, L. Kaplan, and J. Han. Graph regularized meta-path based transductive regression in heterogeneous information network. In *SDM*, pages 918–926, 2015.
- [33] F. Wang, T. Li, X. Wang, S. Zhu, and C. Ding. Community discovery using nonnegative matrix factorization. *DMKD*, 22(3):493–521, 2011.
- [34] X. Xu, N. Yuruk, Z. Feng, and T. A. J. Schweiger. Scan: a structural clustering algorithm for networks. In *KDD*, pages 824–833, 2007.
- [35] Z. Xu, Y. Ke, Y. Wang, H. Cheng, and J. Cheng. A model-based approach to attributed graph clustering. In *SIGMOD*, pages 505–516, 2012.
- [36] J. Yang and J. Leskovec. Overlapping community detection at scale: a nonnegative matrix factorization approach. In *WSDM*, pages 587–596, 2013.
- [37] J. Yang, J. J. McAuley, and J. Leskovec. Community detection in networks with node attributes. In *ICDM*, pages 1151–1156, 2013.
- [38] T. Yang, R. Jin, Y. Chi, and S. Zhu. Combining link and content for community detection: a discriminative approach. In *KDD*, pages 927–936, 2009.
- [39] Y. Zhou, H. Cheng, and J. X. Yu. Graph clustering based on structural/attribute similarities. *PVLDB*, 2(1):718–729, 2009.
- [40] Y. Zhou and L. Liu. Social influence based clustering of heterogeneous information networks. In *KDD*, pages 338–346. ACM, 2013.
- [41] X. Zhu, J. Lafferty, and R. Rosenfeld. *Semi-supervised learning with graphs*. Carnegie Mellon University, 2005.