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- [1] L. M. Aiello, D. Donato, U. Ozertem, and F. Menczer. Behavior-driven clustering of queries into topics. In *CIKM*, 2011.
- [2] M. Baroni and S. Bisi. Using cooccurrence statistics and the web to discover synonyms in a technical language. In *LERC*, 2004.
- [3] M. Bendersky, D. Metzler, and W. B. Croft. Effective query formulation with multiple information sources. In *WSDM*, pages 443–452, 2012.
- [4] O. Benjelloun, H. Garcia-Molina, D. Menestrina, Q. Su, S. E. Whang, and J. Widom. Swoosh: a generic approach to entity resolution. *VLDB*, 18(1):255–276, 2009.
- [5] K. Chakrabarti, S. Chaudhuri, T. Cheng, and D. Xin. A framework for robust discovery of entity synonyms. In *SIGKDD*, 2012.
- [6] S. Chaudhuri, V. Ganti, and D. Xin. Exploiting web search to generate synonyms for entities. In *WWW*, 2009.
- [7] T. Cheng, H. W. Lauw, and S. Pappas. Entity synonyms for structured web search. *TKDE*, 24(10):1862–1875, 2011.
- [8] N. Craswell, B. Billerbeck, D. Fetterly, and M. Najork. Robust query rewriting using anchor data. In *WSDM*, 2013.
- [9] N. Craswell and M. Szummer. Random walks on the click graph. In *SIGIR*, 2007.
- [10] M. Danilevsky, C. Wang, N. Desai, X. Ren, J. Guo, and J. Han. Kert: Automatic extraction and ranking of topical keyphrases from content-representative document titles. *SDM*, 2014.
- [11] A. El-Kishky, Y. Song, C. Wang, C. R. Voss, and J. Han. Scalable topical phrase mining from text corpora. *VLDB*, 2015.
- [12] A. Gattani, D. S. Lamba, N. Garera, M. Tiwari, X. Chai, S. Das, S. Subramaniam, A. Rajaraman, V. Harinarayan, and A. Doan. Entity extraction, linking, classification, and tagging for social media: a wikipedia-based approach. *VLDB*, 6(11):1126–1137, 2013.
- [13] L. Getoor and A. Machanavajjhala. Entity resolution: theory, practice & open challenges. *VLDB*, 5(12):2018–2019, 2012.
- [14] G. H. Golub and C. F. Van Loan. *Matrix computations*, volume 3. JHU Press, 2012.
- [15] J. Guo, G. Xu, X. Cheng, and H. Li. Named entity recognition in query. In *SIGIR*, 2009.
- [16] G. Halawi, G. Dror, E. Gabrilovich, and Y. Koren. Large-scale learning of word relatedness with constraints. In *SIGKDD*, 2012.
- [17] Y. Hu, Y. Qian, H. Li, D. Jiang, J. Pei, and Q. Zheng. Mining query subtopics from search log data. In *SIGIR*, 2012.
- [18] M. Ji, Y. Sun, M. Danilevsky, J. Han, and J. Gao. Graph regularized transductive classification on heterogeneous information networks. In *ECMLPKDD*, 2010.
- [19] L. Jiang, P. Luo, J. Wang, Y. Xiong, B. Lin, M. Wang, and N. An. Grias: an entity-relation graph based framework for discovering entity aliases. In *ICDM*, 2013.
- [20] H. Kim, X. Ren, Y. Sun, C. Wang, and J. Han. Semantic frame-based document representation for comparable corpora. In *ICDM*, pages 350–359, 2013.
- [21] Y. Li, B.-J. P. Hsu, C. Zhai, and K. Wang. Mining entity attribute synonyms via compact clustering. In *CIKM*, 2013.
- [22] D. Lin, S. Zhao, L. Qin, and M. Zhou. Identifying synonyms among distributionally similar words. In *IJCAI*, 2003.
- [23] H. Ma, H. Yang, I. King, and M. R. Lyu. Learning latent semantic relations from clickthrough data for query suggestion. In *CIKM*, 2008.
- [24] Q. Mei, D. Zhou, and K. Church. Query suggestion using hitting time. In *CIKM*, 2008.
- [25] P. Pantel, E. Crestan, A. Borkovsky, A.-M. Popescu, and V. Vyas. Web-scale distributional similarity and entity set expansion. In *EMNLP*, 2009.
- [26] H. Poon and P. Domingos. Joint unsupervised coreference resolution with markov logic. In *ACL*, 2008.
- [27] X. Ren, Y. Wang, X. Yu, J. Yan, Z. Chen, and J. Han. Heterogeneous graph-based intent learning with queries, web pages and wikipedia concepts. In *WSDM*, pages 23–32, 2014.
- [28] E. Sadikov, J. Madhavan, L. Wang, and A. Halevy. Clustering query refinements by user intent. In *WWW*, 2010.
- [29] W. Shen, J. Wang, and J. Han. Entity linking with a knowledge base: Issues, techniques, and solutions. *TKDE*, (99):1–20, 2014.
- [30] P. D. Turney. Mining the web for synonyms: Pmi-ir versus lsa on toefl. In *ECML*. 2001.
- [31] C. Wang, K. Chakrabarti, T. Cheng, and S. Chaudhuri. Targeted disambiguation of ad-hoc, homogeneous sets of named entities. In *WWW*, 2012.
- [32] X. Wang, D. Chakrabarti, and K. Punera. Mining broad latent query aspects from search sessions. In *SIGKDD*, 2009.
- [33] X. Wei, F. Peng, H. Tseng, Y. Lu, and B. Dumoulin. Context sensitive synonym discovery for web search queries. In *CIKM*, 2009.
- [34] D. Zhou, O. Bousquet, T. Lal, J. Weston, and B. Scholkopf. Learning with local and global consistency. In *NIPS*, 2004.