

8. REFERENCES

- [1] J. Acharya, I. Diakonikolas, C. Hegde, J. Z. Li, and L. Schmidt. Fast and near-optimal algorithms for approximating distributions by histograms. In T. Milo and D. Calvanese, editors, *PODS*, pages 249–263. ACM, 2015.
- [2] M. B. Arouxet, N. Echebest, and E. A. Pilotta. Active-set strategy in Powell’s method for optimization without derivatives. *Computational & Applied Mathematics*, 30:171 – 196, 00 2011.
- [3] L. Azzopardi. Modelling interaction with economic models of search. In S. Geva, A. Trotman, P. Bruza, C. L. A. Clarke, and K. J  rvelin, editors, *SIGIR*, pages 3–12. ACM, 2014.
- [4] S. Basu Roy, H. Wang, G. Das, U. Nambiar, and M. Mohania. Minimum-effort driven dynamic faceted search in structured databases. In *Proceedings of the 17th ACM Conference on Information and Knowledge Management, CIKM ’08*, pages 13–22, New York, NY, USA, 2008. ACM.
- [5] L. Breiman, J. Friedman, R. Olshen, and C. Stone. *Classification and Regression Trees*. Pacific Grove, 1984.
- [6] R. Brent. *Algorithms for minimization without derivatives*. Prentice-Hall, 1973.
- [7] N. Craswell, O. Zoeter, M. Taylor, and B. Ramsey. An experimental comparison of click position-bias models. In *Proceedings of the 2008 International Conference on Web Search and Data Mining, WSDM ’08*, pages 87–94, New York, NY, USA, 2008. ACM.
- [8] A. Dvoretzky, J. Kiefer, and J. Wolfowitz. Asymptotic minimax character of the sample distribution function and of the classical multinomial estimator. *The Annals of Mathematical Statistics*, pages 1397–1400. ACM, 1956.
- [9] F. Gao and L. Han. Implementing the nelder-mead simplex algorithm with adaptive parameters. *Comp. Opt. and Appl.*, 51(1):259–277, 2012.
- [10] M. A. Hearst. Uis for faceted navigation: Recent advances and remaining open problems. 2008.
- [11] M. A. Hearst. *Search User Interfaces*. Cambridge University Press, 1 edition, 2009.
- [12] H. V. Jagadish, N. Koudas, S. Muthukrishnan, V. Poosala, K. C. Sevcik, and T. Suel. Optimal histograms with quality guarantees. In A. Gupta, O. Shmueli, and J. Widom, editors, *VLDB*, pages 275–286. Morgan Kaufmann, 1998.
- [13] K. J  rvelin. Cumulated gain-based evaluation of ir techniques. volume 20, page 2002, 2002.
- [14] C. Kang, D. Yin, R. Zhang, N. Torzec, J. He, and Y. Chang. Learning to rank related entities in web search. *Neurocomputing*, 166:309–318, 2015.
- [15] A. Kashyap, V. Hristidis, and M. Petropoulos. Facetor: cost-driven exploration of faceted query results. In J. Huang, N. Koudas, G. J. F. Jones, X. Wu, K. Collins-Thompson, and A. An, editors, *CIKM*, pages 719–728. ACM, 2010.
- [16] J. Koren, Y. Zhang, and X. Liu. Personalized interactive faceted search. In *Proceedings of the 17th International Conference on World Wide Web, WWW ’08*, pages 477–486, New York, NY, USA, 2008. ACM.
- [17] B. Kules, R. Capra, M. Banta, and T. Sierra. What do exploratory searchers look at in a faceted search interface? In *JCDL ’09: Proceedings of the 9th ACM/IEEE-CS joint conference on Digital libraries*, pages 313–322, New York, NY, USA, 2009. ACM.
- [18] S. Liberman and R. Lempel. Approximately optimal facet selection. In *Proceedings of the 27th Annual ACM Symposium on Applied Computing, SAC ’12*, pages 702–708, New York, NY, USA, 2012. ACM.
- [19] A. Moffat and J. Zobel. Rank-biased precision for measurement of retrieval effectiveness. *ACM Trans. Inf. Syst.*, 27(1), 2008.
- [20] M. Muralikrishna and D. J. DeWitt. Equi-depth histograms for estimating selectivity factors for multi-dimensional queries. In H. Boral and P.-  . Larson, editors, *SIGMOD Conference*, pages 28–36. ACM Press, 1988.
- [21] J. A. Nelder and R. Mead. A simplex method for function minimization. *Computer Journal*, 7:308–313, 1965.
- [22] P. Pirolli and S. Card. Information foraging. *Psychological Review*, 106. 4:634–675, 1999.
- [23] S. E. Robertson. The probability ranking principle in ir. *Journal of Documentation* 33, pages 294–304, 1997.
- [24] S. B. Roy, H. Wang, G. Das, U. Nambiar, and M. K. Mohania. Minimum-effort driven dynamic faceted search in structured databases. In *CIKM*, pages 13–22. ACM, 2008.
- [25] K. Sparck Jones and P. Willett, editors. *Readings in Information Retrieval*. Morgan Kaufmann Publishers Inc., San Francisco, CA, USA, 1997.
- [26] R. Tibshirani. Regression shrinkage and selection via the Lasso. *Journal of the Royal Statistical Society. Series B (Methodological)*, pages 267–288, 1996.
- [27] H. Valizadegan, R. Jin, R. Zhang, and J. Mao. Learning to rank by optimizing ndcg measure. In *NIPS*, pages 1883–1891, 2009.
- [28] R. van Zwol, B. Sigurbj  rnsson, R. Adapala, L. G. Pueyo, A. Katiyar, K. Kurapati, M. Muralidharan, S. Muthu, V. Murdock, P. Ng, A. Ramani, A. Sahai, S. T. Sathish, H. Vasudev, and U. Vuyyuru. Faceted exploration of image search results. In *WWW*, pages 961–970. ACM, 2010.
- [29] D. Vadic, F. Frasincar, and U. Kaymak. Facet selection algorithms for web product search. In *Proceedings of the 22Nd ACM International Conference on Conference on Information & Knowledge Management, CIKM ’13*, pages 2327–2332, New York, NY, USA, 2013. ACM.
- [30] E. Yilmaz, M. Verma, N. Craswell, F. Radlinski, and P. Bailey. Relevance and effort: An analysis of document utility. In *CIKM*, pages 91–100. ACM, 2014.
- [31] Y. Yue, T. Finley, F. Radlinski, and T. Joachims. A support vector method for optimizing average precision. In *SIGIR*, pages 271–278. ACM, 2007.
- [32] Y. Zhang and C. Zhai. Information retrieval as card playing: A formal model for optimizing interactive retrieval interface. In *SIGIR*, pages 685–694. ACM, 2015.