

Referencias

- [1] B. Pang and L. Lee, “Opinion Mining and Sentiment Analysis,” *Found. Trends Inf. Retr.*, vol. 2, pp. 1–135, January 2008. 1, 2
- [2] P. D. Turney, “Thumbs up or thumbs down?: semantic orientation applied to unsupervised classification of reviews,” in *Proceedings of the 40th Annual Meeting on Association for Computational Linguistics, ACL '02*, (Stroudsburg, PA, USA), pp. 417–424, Association for Computational Linguistics, 2002. 3, 59, 69
- [3] V. Hatzivassiloglou and J. M. Wiebe, “Effects of adjective orientation and gradability on sentence subjectivity,” in *Proceedings of the 18th conference on Computational linguistics - Volume 1, COLING '00*, (Stroudsburg, PA, USA), pp. 299–305, Association for Computational Linguistics, 2000. 3, 59
- [4] B. Liu, “Sentiment Analysis and Subjectivity,” in *Handbook of Natural Language Processing, Second Edition* (N. Indurkha and F. J. Damerau, eds.), Boca Raton, FL: CRC Press, Taylor and Francis Group, 2010. ISBN 978-1420085921. 3, 39
- [5] H. Binali, V. Potdar, and C. Wu, “A state of the art opinion mining and its application domains,” in *Proceedings of the 2009 IEEE International Conference on Industrial Technology*, (Washington, DC, USA), pp. 1–6, IEEE Computer Society, 2009. 3
- [6] H. Tang, S. Tan, and X. Cheng, “A survey on sentiment detection of reviews,” *Expert Syst. Appl.*, vol. 36, pp. 10760–10773, September 2009. 3

- [7] B. Liu, M. Hu, and J. Cheng, “Opinion observer: analyzing and comparing opinions on the Web,” in *Proceedings of the 14th international conference on World Wide Web*, WWW '05, (New York, NY, USA), pp. 342–351, ACM, 2005. 4
- [8] M. Hu and B. Liu, “Mining and summarizing customer reviews,” in *Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining*, KDD '04, (New York, NY, USA), pp. 168–177, ACM, 2004. 4
- [9] S. M. Kim and E. Hovy, “Automatic Detection of Opinion Bearing Words and Sentences,” in *Companion Volume to the Proceedings of IJCNLP-05, the Second International Joint Conference on Natural Language Processing*, (Jeju Island, KR), pp. 61–66, 2005. 4
- [10] V. L. Rubin, J. M. Stanton, and E. D. Liddy, “Discerning Emotions in Texts,” in *Proceedings of the AAAI Spring Symposium on Exploring Attitude and Affect in Text: Theories and Applications*, (Stanford, US), 2004. 5
- [11] C. Strapparava and R. Mihalcea, “Learning to identify emotions in text,” in *Proceedings of the 2008 ACM symposium on Applied computing*, SAC '08, (New York, NY, USA), pp. 1556–1560, ACM, 2008. 5
- [12] M. Jönsson, “Irony in online reviews: A linguistic approach to identifying irony,” 2010. Gothenburg University Publications Electronic Archive. 5
- [13] P. Carvalho, L. Sarmiento, M. J. Silva, and E. de Oliveira, “Clues for detecting irony in user-generated contents: oh...!! it's ”so easy”;-),” in *Proceeding of the 1st international CIKM workshop on Topic-sentiment analysis for mass opinion*, TSA '09, (New York, NY, USA), pp. 53–56, ACM, 2009. 5
- [14] T. Wilson, J. Wiebe, and P. Hoffmann, “Recognizing contextual polarity in phrase-level sentiment analysis,” in *Proceedings of the conference on Human Language Technology and Empirical Methods in Natural Language Processing*, HLT '05, (Stroudsburg, PA, USA), pp. 347–354, Association for Computational Linguistics, 2005. 5

- [15] E. Riloff and J. Wiebe, “Learning extraction patterns for subjective expressions,” in *Proceedings of the 2003 conference on Empirical methods in natural language processing*, EMNLP ’03, (Stroudsburg, PA, USA), pp. 105–112, Association for Computational Linguistics, 2003. 5
- [16] E. Riloff, J. Wiebe, and T. Wilson, “Learning subjective nouns using extraction pattern bootstrapping,” in *Proceedings of the seventh conference on Natural language learning at HLT-NAACL 2003 - Volume 4*, CONLL ’03, (Stroudsburg, PA, USA), pp. 25–32, Association for Computational Linguistics, 2003. 5
- [17] H. Yu and V. Hatzivassiloglou, “Towards answering opinion questions: separating facts from opinions and identifying the polarity of opinion sentences,” in *Proceedings of the 2003 conference on Empirical methods in natural language processing*, EMNLP ’03, (Stroudsburg, PA, USA), pp. 129–136, Association for Computational Linguistics, 2003. 6
- [18] V. Hatzivassiloglou and K. R. McKeown, “Predicting the semantic orientation of adjectives,” in *Proceedings of the 35th Annual Meeting of the Association for Computational Linguistics and Eighth Conference of the European Chapter of the Association for Computational Linguistics*, ACL ’98, (Stroudsburg, PA, USA), pp. 174–181, Association for Computational Linguistics, 1997. 6
- [19] P. D. Turney and M. L. Littman, “Measuring praise and criticism: Inference of semantic orientation from association,” *ACM Trans. Inf. Syst.*, vol. 21, pp. 315–346, October 2003. 6
- [20] I. H. Witten and E. Frank, *Data Mining: Practical Machine Learning Tools and Techniques*. Morgan Kaufmann, 2005. 8
- [21] S. Weiss, N. Indurkha, T. Zhang, and F. Damerau, *Text Mining: Predictive Methods for Analyzing Unstructured Information*. Springer, 2004. 9, 12, 13, 15

- [22] A. Srivastava and M. Sahami, eds., *Text Mining: Classification, Clustering, and Applications*. Chapman & Hall/CRC, 1st ed., 2009. 9, 10, 39
- [23] D. Jurafsky and J. H. Martin, *Speech and Language Processing*. Prentice Hall, 2008. 11, 14, 16
- [24] S. Bird, E. Klein, and E. Loper, *Natural Language Processing with Python*. O'Reilly Media, Inc., 1st ed., 2009. 13, 42, 55
- [25] C. D. Manning and H. Schütze, *Foundations of statistical natural language processing*. Cambridge, MA, USA: MIT Press, 1999. 13, 15
- [26] R. Feldman and J. Sanger, *The Text Mining Handbook: Advanced Approaches in Analyzing Unstructured Data*. Cambridge University Press, 2006. 16, 28, 30
- [27] M. P. Marcus, M. A. Marcinkiewicz, and B. Santorini, “Building a large annotated corpus of English: the penn treebank,” *Comput. Linguist.*, vol. 19, pp. 313–330, June 1993. 16
- [28] E. Alpaydin, *Introduction to Machine Learning*. The MIT Press, 2nd ed., 2010. 17, 18, 23
- [29] X. Wu and V. Kumar, *The Top Ten Algorithms in Data Mining*. Chapman & Hall/CRC, 1st ed., 2009. 19
- [30] B. Liu, *Web Data Mining: Exploring Hyperlinks, Contents, and Usage Data (Data-Centric Systems and Applications)*. Secaucus, NJ, USA: Springer-Verlag New York, Inc., 2006. 19, 21, 22, 23, 26
- [31] C. D. Manning, P. Raghavan, and H. Schütze, *Introduction to Information Retrieval*. New York, NY, USA: Cambridge University Press, 2008. 19
- [32] N. Ye, *The Handbook of Data Mining (Human Factors and Ergonomics)*. Lawrence Erlbaum Associates, 2004. 22, 23

- [33] F. Provost, T. Fawcett, and R. Kohavi, “The Case Against Accuracy Estimation for Comparing Induction Algorithms,” in *Proceedings of the Fifteenth International Conference on Machine Learning*, 1997. 26
- [34] T. Fawcett, “An introduction to ROC analysis,” *Pattern Recognition Letters*, vol. 27, no. 8, pp. 861 – 874, 2006. ROC Analysis in Pattern Recognition. 27
- [35] “dendrogram.png,” Jan. 2011. Internet: <http://igraph.sourceforge.net/images/screenshots/dendrogram.png>. 31
- [36] D. Skillicorn, *Understanding Complex Datasets: Data Mining with Matrix Decompositions*. Boca Raton, Florida: Chapman & Hall/CRC, 2007. 30, 33, 34
- [37] D. D. Lee and H. S. Seung, “Learning the parts of objects by non-negative matrix factorization.,” *Nature*, vol. 401, pp. 788–791, Oct. 1999. 36
- [38] P. O. Hoyer, “Non-negative sparse coding,” *CoRR*, vol. cs.NE/0202009, 2002. 36
- [39] V. Pauca, F. Shahnaz, M. W. Berry, and P. R. J., “Text Mining Using Non-Negative Matrix Factorizations,” in *Proceedings of the Fourth SIAM International Conference on Data Mining*, pp. 452–457, 2004. 36, 75
- [40] P. Paatero, “The multilinear engine – A table-driven, least squares program for solving multilinear problems, including the n-way parallel factor analysis model,” in *Journal of Computational and Graphical Statistics*, pp. 854–888, 1999. 36
- [41] C.-J. Lin, “Projected Gradient Methods for Nonnegative Matrix Factorization,” *Neural Comput.*, vol. 19, pp. 2756–2779, October 2007. 36, 37, 38
- [42] L. Chih-Jen, “Non-negative Matrix Factorization (NMF),” Jan. 2011. Internet: <http://www.csie.ntu.edu.tw/~cjlin/nmf/>. 38
- [43] “About Python,” Jan. 2011. Internet: <http://www.python.org/about/>. 42

REFERENCIAS

- [44] “Intro to Python and NLTK,” Jan. 2011. Internet: <http://www.cs.oberlin.edu/~jdonalds/333/lecture03.html>. 55
- [45] “What is a presupposition trigger?,” Nov. 2010. Internet: <http://www.sil.org/linguistics/GlossaryOfLinguisticTerms/WhatIsAPresuppositionTrigger.htm>. 60
- [46] “What is a presupposition?,” Nov. 2010. Internet: <http://www.sil.org/linguistics/GlossaryOfLinguisticTerms/WhatIsAPresupposition.htm>. 60
- [47] B. Pang, L. Lee, and S. Vaithyanathan, “Thumbs up?: sentiment classification using machine learning techniques,” in *Proceedings of the ACL-02 conference on Empirical methods in natural language processing - Volume 10*, EMNLP '02, (Stroudsburg, PA, USA), pp. 79–86, Association for Computational Linguistics, 2002. 68, 69, 73, 75, 82