



Books Conferences News About Us Job: Home Journals Home > Journal > Business & Economics | Computer Science & Communications > IIM Open Special Issues Indexing View Papers Aims & Scope Editorial Board Guideline Article Processing Charges Published Special Issues IIM> Vol.1 No.2, November 2009 • Special Issues Guideline OPEN ACCESS **IIM Subscription** Word Sense Disambiguation in Information Retrieval PDF (Size: 208KB) PP. 122-127 DOI: 10.4236/iim.2009.12018 Most popular papers in IIM Author(s) About IIM News Francis de la C. Fernández REYES, Exiquio C. Pérez LEYVA, Rogelio Lau FERNÁNDEZ **ABSTRACT** Frequently Asked Questions The natural language processing has a set of phases that evolves from lexical text analysis to the pragmatic one in which the author's intentions are shown. The ambiguity problem appears in all of these Recommend to Peers tasks. Previous works tries to do word sense disambiguation, the process of assign a sense to a word inside a specific context, creating algorithms under a supervised or unsupervised approach, which means Recommend to Library that those algorithms use or not an external lexical resource. This paper presents an approximated approach that combines not supervised algorithms by the use of a classifiers set, the result will be a Contact Us learning algorithm based on unsupervised methods for word sense disambiguation process. It begins with an introduction to word sense disambiguation concepts and then analyzes some unsupervised algorithms in order to extract the best of them, and combines them under a supervised approach making use of some Downloads: 144,622 classifiers. **KEYWORDS** Visits: 361,782 disambiguation algorithms, natural language processing, word sense disambiguation Sponsors >> Cite this paper F. REYES, E. LEYVA and R. FERNáNDEZ, "Word Sense Disambiguation in Information Retrieval," Intelligent Information Management, Vol. 1 No. 2, 2009, pp. 122-127. doi: 10.4236/iim.2009.12018.

References

- [1] E. Agirre and G. Rigau, " Word sense disambiguation using conceptual density," International Conference on Computational Linguistics (COLING), Copenhagen, Denmark 1996.
- [2] H. Anaya-Sánchez, A. Pons-Porrata, et al., "TKB-UO: Using sense clustering for WSD," 4th International Workshop on Semantic Evaluations (SemEval), Prague, Czech Republic, Association for Computational Linguistics, 2007.
- [3] S. Banerjee, "Adapting the lesk algorithm for word sense disambiguation using wordnet," Department of Computing Science. Minnesota, USA, University of Minnesota, MSc.: 98, 2002.
- [4] D. Buscaldi and P. Rosso, "UPV-WSD: Combining different WSD methods by means of fuzzy borda voting," 4th International Workshop on Semantic Evaluations (SemEval), Prague, Czech Republic, Association for Computational Linguistics, 2007.
- [5] Y. Chali and S. R. Joty, "UofL: Word dense disambiguation using lexical cohesion," 4th International Workshop on Semantic Evaluations (SemEval), Prague, Czech Republic, Association for Computational Linguistics, 2007.
- [6] A. Gelbukh and G. Sidorov, "Procesamiento automático del espa?ol con enfoque en recursos léxicos grandes," México, Centro de Investigación en computación, Instituto Politécnico Nacional, 2006.
- [7] J. Huang, J. Lu, et al., " Comparing naive Bayes, decision trees, and SVM with AUC and accuracy," Third IEEE International Conference on Data Mining, 2003.
- [8] R. Ion and D. Tufis, "RACAI: Meaning affinity models," 4th International Workshop on Semantic Evaluations (SemEval), Prague, Czech Republic, Association for Computational Linguistics, 2007.

- [9] D. Jurafsky and J. H. Martin, "Speech and language processing: An introduction to natural language processing, computational linguistics, and speech recognition," Prentice Hall, 2000.
 - [10] R. Koeling and D. McCarthy, "Sussx: WSD using automatically acquired predominant senses," 4th International Workshop on Semantic Evaluations (SemEval), Prague, Czech Republic, Association for Computational Linguistics, 2007.
 - [11] M. Lesk, "Automatic sense disambiguation using machine readable dictionaries: How to tell a pine cone from an ice cream cone," 5th Annual International Conference on Systems Documentation, Ontario, Canada, ACM, 1986.
 - [12] I. Nica, "El conocimiento lingüístico en la desambi- guación semántica automática," Espa?a, 2006.
 - [13] P. Resnik, "Disambiguating noun groupings with respect to wordnet senses," Third Workshop on