

Representations of Meaning, 7.5hp

Reading list

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A reading list is made in consultation with student(s). Some suggested readings include (in alphabetical order of author names):

Baroni, M., Bernardi, R., Do, N.-Q., and Shan, C.-c. (2012). Entailment above the word level in distributional semantics. In *Proceedings of the 13th Conference of the European Chapter of the Association for Computational Linguistics*, pages 23–32. Association for Computational Linguistics

Bird, S., Klein, E., and Loper, E. (2009). *Natural language processing with Python*. O’Reilly

Blackburn, P. and Bos, J. (2005). *Representation and inference for natural language. A first course in computational semantics*. CSLI Publications

Bruni, E., Boleda, G., Baroni, M., and Tran, N. K. (2012). Distributional semantics in technicolor. In *Proceedings of the 50th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, pages 136–145, Jeju Island, Korea. Association for Computational Linguistics

Cooper, R. (2015). Type theory and language: From perception to linguistic communication. Draft of chapters 1-5, 11th June 2015

Cooper, R., Dobnik, S., Lappin, S., and Larsson, S. (2015). Probabilistic type theory and natural language semantics. *Linguistic Issues in Language Technology — LiLT*, 10(4):1–43

Clark, S. (2015). Vector space models of lexical meaning. In Lappin, S. and Fox, C., editors, *Handbook of Contemporary Semantics — second edition*, chapter 16, pages 493–522. Wiley – Blackwell

Clark, S., Rimell, L., Polajnar, T., and Maillard, J. (2016). The categorial framework for compositional distributional semantics. Technical report, University of Cambridge Computer Laboratory

Eijck, J. v. and Unger, C. (2010). *Computational semantics with functional programming*. Cambridge University Press, Cambridge

Erk, K. (2012). Vector space models of word meaning and phrase meaning: A survey. *Language and Linguistics Compass*, 6(10):635–653

Erk, K. (2016). What do you know about an alligator when you know the company it keeps? Manuscript

Grefenstette, E., Sadrzadeh, M., Clark, S., Coecke, B., and Pulman, S. (2014). Concrete sentence spaces for compositional distributional models of meaning. In Bunt, H., Bos, J.,

and Pulman, S., editors, *Computing Meaning*, volume 4, pages 71–86. Springer Netherlands, Dordrecht

Matuszek, C., FitzGerald, N., Zettlemoyer, L., Bo, L., and Fox, D. (2012a). A joint model of language and perception for grounded attribute learning. In Langford, J. and Pineau, J., editors, *Proceedings of the 29th International Conference on Machine Learning (ICML 2012)*, Edinburgh, Scotland

Matuszek, C., Herbst, E., Zettlemoyer, L., and Fox, D. (2012b). Learning to parse natural language commands to a robot control system. In *Proceedings of the 13th International Symposium on Experimental Robotics (ISER)*

Roy, D. and Pentland, A. P. (2002). Learning words from sights and sounds: a computational model. *Cognitive Science*, 26(1):113–146

Roy, D. (2005). Semiotic schemas: a framework for grounding language in action and perception. *Artificial Intelligence*, 167(1-2):170–205

Socher, R., Karpathy, A., Le, Q. V., Manning, C. D., and Ng, A. Y. (2014). Grounded compositional semantics for finding and describing images with sentences. *Transactions of the Association for Computational Linguistics*, 2:207–218

Turney, P. D., Pantel, P., et al. (2010). From frequency to meaning: Vector space models of semantics. *Journal of artificial intelligence research*, 37(1):141–188