LT2313: Computational Semantics (CS)
Reading list

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May 16, 2020

Lawrence W. Barsalou. 2008. Grounded cognition. *Annual Review of Psychology*, 59:617–645.

Emily M. Bender and Alexander Koller. 2020. Climbing towards nlu: On meaning, form, and understanding in the age of data. OpenReview Preprint, anonymous preprint under review.

Yoshua Bengio, Réjean Ducharme, Pascal Vincent, and Christian Janvin. 2003. A neural probabilistic language model. *Journal of Machine Learning Research*, 3(6):1137–1155.

Steven Bird, Ewan Klein, and Edward Loper. 2009. *Natural language processing with Python*. O'Reilly.

Patrick Blackburn and Johan Bos. 2005. *Representation and inference for natural language. A first course in computational semantics*. CSLI Publications.

Samuel R. Bowman, Gabor Angeli, Christopher Potts, and Christopher D. Manning. 2015. A large annotated corpus for learning natural language inference. In *Proceedings of the 2015 Conference on Empirical Methods in Natural Language Processing (EMNLP)*. Association for Computational Linguistics.

Gennaro Chierchia and Sally McConnell-Ginet. 2000. *Meaning and grammar: an introduction to semantics*, 2 edition. MIT Press, Cambridge, Mass.

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

J. van Eijck and Christina Unger. 2010. *Computational semantics with functional programming*. Cambridge University Press, Cambridge.

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

John R. Firth. 1957. A synopsis of linguistic theory 1930–1955. *Studies in linguistic analysis*, pages 1–32.

Noah D. Goodman and Michael C. Frank. 2016. Pragmatic language interpretation as probabilistic inference. *Trends in Cognitive Sciences*, 20(11):818–829.

Stevan Harnad. 1990. The symbol grounding problem. *Physica D*, 42(1–3):335–346.

Zellig S. Harris. 1954. Distributional structure. *Word*, 10(2-3):146–162.

Dan Jurafsky and James H. Martin. 2019. Speech and language processing: an introduction to natural language processing, computational linguistics, and speech recognition. Third edition draft, Stanford University and University of Colorado at Boulder.

Mikael Kågebäck and Hans Salomonsson. 2016. Word sense disambiguation using a bidirectional lstm. In *5th Workshop on Cognitive Aspects of the Lexicon (CogALex)*. Association for Computational Linguistics.

Shalom Lappin and Chris Fox, editors. 2015. *The Handbook of Contemporary Semantic Theory*, 2nd edition. Wiley-Blackwell.

Christopher Manning. 2017. Representations for language: From word embeddings to sentence meanings. talk, Stanford University, Simons Institute, Berkeley.

Christopher D. Manning. 2005. An introduction to formal computational semantics. Lecture notes for CS224N/Ling 280.

Tomas Mikolov, Kai Chen, Greg Corrado, and Jeffrey Dean. 2013. Efficient estimation of word representations in vector space. ArXiv preprint arXiv:1301.3781.

Jeff Mitchell and Mirella Lapata. 2008. Vector-based models of semantic composition. In *Proceedings of ACL-08: HLT*, pages 236–244, Columbus, Ohio.

Jeff Mitchell and Mirella Lapata. 2010. Composition in distributional models of semantics. *Cognitive Science*, 34(8):1388–1429.

Richard Montague. 1974. *Formal Philosophy: Selected Papers of Richard Montague*. Yale University Press, New Haven. Ed. and with an introduction by Richmond H. Thomason.

Christopher Olah. 2015. Understanding LSTMs. Technical report, Google Brain.

Jeffrey Pennington, Richard Socher, and Christopher Manning. 2014. Glove: Global vectors for word representation. In *Proceedings of the 2014 conference on empirical methods in natural language processing (EMNLP)*, pages 1532–1543.

Matthew Peters, Mark Neumann, Mohit Iyyer, Matt Gardner, Christopher Clark, Kenton Lee, and Luke Zettlemoyer. 2018. Deep contextualized word representations. In *Proceedings of the 2018 Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies, Volume 1 (Long Papers)*, pages 2227–2237, New Orleans, Louisiana. Association for Computational Linguistics.

Stephen G. Pulman. 2005. Higher order logic in semantics. lecture notes, Department of Computer Science, University of Oxford, Oxford, United Kingdom.

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

Matthew Stone. 2016. Semantics and computation. In Maria Aloni and Paul Dekker, editors, *The Cambridge Handbook of Formal Semantics*, Cambridge Handbooks in Language and Linguistics, chapter 25, pages 775–800. Cambridge University Press, Cambridge, UK.

Aarne Talman, Anssi Yli-Jyrä, and Jörg Tiedemann. 2019. Sentence embeddings in nli with iterative refinement encoders. *Natural Language Engineering*, 25(4):467–482.

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