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Empirical studies on word representations

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Stellingen
behorende bij het proefschrift
Empirical studies on word representations
van
Simon Šuster

1. Word representations enable generalization that is useful in real-world NLP applications.
2. Adapting the lexical disambiguation component of the Alpino parser is a hard task. The proposed enhancement of selectional preferences with semantic classes did not improve the baseline performance.
3. One important axis of variation for representations induced from text is the definition of context.
4. Syntax-based contexts can lead to better representations than linear contexts.
5. Latent-variable models are a theoretically appealing approach to learning word representations, but can be fiddly; simpler approaches might work just as well or better.
6. Translation of a word in context contains important cues about the meaning of that word.
7. *The decision between task-specific and task-independent representations is a good philosophical question.* Manaal Faruqui, 2016
8. *Every representational scheme has its good and bad points. Distributed representations are no exception.* Geoffrey E. Hinton, 1984
9. *Of course, linguists do not generally keep NLP in mind as they do their work, so not all of linguistics should be expected to be useful.* Noah Smith, 2011
10. *It is not unscientific to make a guess, although many people who are not in science think it is. It is scientific only to say what is more likely and what less likely, and not to be proving all the time the possible and impossible.* Richard Feynman, 1964