

LING 3400/SLI 3000: Computational Lexical Semantics

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Lexical semantics is becoming an increasingly important part of Natural Language Processing (NLP), as the field is beginning to address semantics at a large scale. This graduate seminar will cover key issues in computational lexical semantics. We will start with an introduction to theoretical models of lexical semantics and assess, considering both their adequacy as linguistic models and their place in NLP. We will focus particularly on computational lexical resources such as WordNet, VerbNet and the Generative Lexicon, and examine their strengths and limitations with respect to NLP applications. We will introduce approaches to developing automatic classifiers that are intended to make use of these resources and to offer richer representations of sentences in context. These techniques can be fully supervised - requiring hand-labeled training data/, semi-supervised, or unsupervised - learning lexical information from unlabeled text.