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Transition-based DRS Parsing with Stack-LSTMs

Semantic parsers range from traditional, grammar-based systems to recent neural sequence-to-sequence systems. There is a middle ground on this spectrum: semantic parsers that use an explicit lexicon of word-meaning pairs, but no explicit representation of syntax. Such parsers will be useful especially in production settings, semi-automatic annotation, and education, because they avoid the need for grammar engineering while still being transparent and explainable in their decisions. In this talk, I present one such system, which uses a transition system to process tokens from left to right, and stack-LSTMs to create vector representations of parser states to make transition decisions. It is applied to the task of parsing text into Discourse Representation Structures (DRSs). I will discuss preliminary results and future work.