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Learning Interpretable Patterns for Morphological Analysis with Deep Neural Networks

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Nyelvtudományi Intézet, földszinti előadóterem

Absztrakt:

Neural networks are remarkably good at morphological inflection and analysis (Cotterell et al., 2018) but they perform the task in a black box fashion. Obtaining explicit morphemes and morpheme boundaries in machine learning systems remains a major challenge.

Soft Patterns or SoPa (Schwartz et al., 2018) is a finite state automaton parameterized by a neural network which has been shown to discover interpretable word patterns for sentiment analysis. We employ this model at a character-level setting and show that that it is capable of discovering morpheme-like patterns.