

Abstract

The main objective of this diploma thesis is to determinate rules in sentiment analysis for behaviour of three connectives „and“, „but“ and „or“ in Czech language, including comparison with binary logical connectives.

The proposal of binary logical connectives interpretation in a natural language and vice versa (i. e. the process of accuracy improvement of natural language connectives meaning) forms the theoretical background of this work.

The practical part is behaviour examination of selected connectives in the connections with two adjectives – positive/negative under the terms of sentiment analysis. The accuracy of 79 % was achieved by application of gained rules onto the data of Czech national corpus (SYN2010). This thesis in addition compares the approach and results with V. Hatzivassiloglou’s research onto english data.

The results of this thesis give an improvement of algorithms in project SE-ANCE, which runs at ÚFAL MFF UK, and lay the theoretical and practical foundations for next researches in sentiment analysis.

Keywords: sentiment analysis, logical connectives, natural language, polarity of adjectives.