

Modeling False Statements in Texts

Authors : Francielle A. Vargas, Thiago A. S. Pardo

Abstract : According to the standard philosophical definition, lying is saying something that you believe to be false with the intent to deceive. For deception detection, the FBI trains its agents in a technique named statement analysis, which attempts to detect deception based on parts of speech (i.e., linguistics style). This method is employed in interrogations, where the suspects are first asked to make a written statement. In this poster, we model false statements using linguistics style. In order to achieve this, we methodically analyze linguistic features in a corpus of fake news in the Portuguese language. The results show that they present substantial lexical, syntactic and semantic variations, as well as punctuation and emotion distinctions.

Keywords : deception detection, linguistics style, computational linguistics, natural language processing

Conference Title : ICITPCL 2022 : International Conference on Intelligent Text Processing and Computational Linguistics

Conference Location : Riga, Latvia

Conference Dates : June 16-17, 2022