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The Empirical Network of Lexical Links

The empirical network of lexical links is the result of an experiment using a human associative mechanism – the person who is the subject of the research says the test first word that comes to his mind after understanding the stimulus word. The study was conducted in a cyclical manner, i.e. response words obtained in the first cycle were used as stimuli in the second cycle, which enabled the creation of a semantic network, which differs from the network created with the bodies of a text, for example, “WORTSCHATZ” and a network constructed by hand, for example. “WordNet”. The empirically obtained words, which are derived from those words in the network, have a direction and power connections. The set of incoming and outgoing connections, in which is found a specific expression, creates a lexical node network (subnet). The manner in which the network characterizes meaning, is shown in the example of feedback connections which are a specific example of the dependencies which appear between two words, appearing in the lexical node. A qualitative analysis of the semantic lexical relations known in linguistics, and employed for example in the “WordNet” dictionary, permit an interpretation of only approximately 25% of linkage feedback. The remaining links may be interpreted by referring to the model of the description of the significance as proposed in the “FrameNet” dictionary. A qualitative interpretation of all the links found in the lexical node may permit a study of the comparative lexical network nodes experimentally constructed for different natural languages, and may also allow, a separation of empirical semantic models employed by the same set of links found between nodes in a given network.