Effective Analysis of Emotiveness in Utterances Based on Features of Lexical and Non-Lexical Layers of Speech

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For a long time emotions were treated as not material or tangible enough to be accurately described in detail, or processed by machines. But...

Hypothesis: analysis of emotions, narrowed to specified borders, should give results comparable to those of humans.

In language there are:
1. Expressions not always used in emotive context, but in emotive context describing emotional states (emotive expressions).
2. Elements informing that emotions have been conveyed, but do not expressing specified feelings or, more precisely, expressing different feelings depending on the context of the sentence (emotive elements).

Analysis System (ML-Ask) for emotive expressions

A high effective method of analysis of emotiveness in utterances, which clearly outperforms present ones. The method is based on analysis of emotive features of the lexical layer of user’s utterances and is supported by analysis of non-lexical emotive features conveyed in text. The system based on this method acquired 93% of accuracy in recognizing emotiveness of user’s utterances and was able to propose emotive value and extract specific emotion on a level comparable to human evaluators.