Research on Emotion Recognition by Language Information
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Dialogue Corpus

RR Database

Speaker — Dialogue Sentence

Analyze

Response Rate (RR)

Intimacy Degree (ID)

Dialogue Sentences

Analyze surface information

Analyze utterance contents

Estimate intimacy degree between persons concerned

Emotion recognition

Emotion (Joy, Anger, Sorrow, etc.)

Content:
In our research, we focuses on language information such as wording used by the speaker and estimated his/her emotion.

Because human emotion is difficult to be recognized superficially, we consider the rhythm of the conversations, relationships/personalities of the persons concerned in the conversation and try to use these information for emotion recognition.

We extract/estimate emotion expressed by each word, sentence-end expression and speaker's intention from dialogue sentences, and use them to increase accuracy of emotion recognition.

By focusing on change of both wordings and emotions and difference of both wordings and personalities, we create dialogue data that are manually annotated such information and analyze them.

To recognize emotions from short sentences on microblog, the knowledge acquisition method from a small amount of information is also being studied.

We are also interested in how to process unknown/new words included in spoken language. Expressions that are difficult to be processed with existing methods such as onomatopeias or metaphors are also another research subject for us.