Abstract

Language is not only a powerful tool to communicate and convey information but is also a means to express emotion. Emotions are the important factors while interacting socially as emotion can easily connect people and improve health and other aspects of daily life. Emotions manipulate the way human thinks, percept and behave. We propose a hybrid system that consists of a rule-based engine and trained a Support Vector Machine (SVM) classifier. For each possible emotion, a rule-based engine is used to find whether the rule is present or not and if the rule is not present for the emotion, we require the SVM classifier in order to get the proper final decision. A set of syntactic and semantic features are extracted from sentences for building the rules and training the classifier.

References

7. Yun Li, Jie Wang, “Research on Text Classification Based on SVM-KNN”, Published in Software Engineering and Service Science (ICSESS), 2014 5th IEEE International Conference on, 7-29 June 2014.

**Index Terms**

Computer Science

Algorithms

**Keywords**

Emotion Extraction, Tokenizer, Stemmer, Rule Based Engine, Machine Learning, SVM