

Ontology Based Comparative Sentences and Relation Mining for Sentiment Classification

Myat Su Wai

missmyatsuwai@gmail.com

University of Computer Studies, Mandalay, UCSM

May Aye Chan Aung

mayayechnaung@gmail.com

University of Computer Studies, Mandalay, UCSM

Due to the rapid expansion of the internet, business through e-commerce has become popular. Many products are being sold on the internet and the merchants selling the products ask their customers to write reviews about the products that they have purchased. Opinion mining and sentiment classification are not only technically challenging because of the need for natural language processing, but also very useful in practice. In this study, ontology based comparative sentence and relation mining for sentiment classification in mobile phone (product) reviews are studied. POS taggers are used to tag sentiment words in the input sentences. In this study, Naive Bayes classifier is also used for sentiment classification. Moreover, the comparison between with ontology and without ontology are also described. This study is very useful for manufacturers and customers in E-commerce Sites, Review Sites, Blog etc.