

## Abstract

Online review provide facility so that internet user can giving review about an aspect. Feature-based sentiment about a product useful and have an influence in decision-making by person or organization. As in an opinion, reviewers and provide positive and negative reviews simultaneously. This is due, opinions targets are often not the product as a whole, but rather part of a product called the feature, where there are advantages and disadvantages in the eyes of reviewers.

In this thesis, the goal is to produce sentiment based on its feature. Opinion data used in this final task in English is taken from the site [www.cnet.com](http://www.cnet.com). Thus, there are two processes undertaken in this thesis: (1) Extraction of product features in opinion, (2) Identification of sentiment for each product feature. Feature extraction is done by searching for phrases that match the template relation dependencies, then do the filtering feature. The identification of sentiment, the probability value is positive, negative, and label the target class of the data preparation, a classifier  $S^3VMs$  input parameters. In the study by  $S^3VMs$ , some data are treated as unlabeled data. Results obtained from this study for the evaluation of sentiment identification with F1-Measure at 86% for positive class and 70% for negative. As for feature identification obtained 82% accuracy.

**Keywords:** review, sentiment, product feature,  $S^3VMs$ , opinion summary