

Abstract

Feature and Opinion Extraction is one of many methods to know the Features and Opinion that contained in a product review sentences. Review sentences can give an information as a consideration to make a decision by the other consumer to know the advantages and disadvantages of a product from other consumer review. Features and opinion extraction will make consumer easier to find the information about a product review. Features and opinion extraction in this final project will use pattern knowledge and taxonomy approach. Pattern knowledge is useful to extracting the features and opinion based on word phrase. While Taxonomy is useful to do referencing on the pattern knowledge result to Seeds Taxonomy, so it will get more features. Pattern knowledge in this research using three method, which is : pattern rule, NP parser and type dependency. noun phrase addition that generated by BIO chunking is done in NP parser.

Taxonomy and pattern knowledge usage can generate f1-score around 20% – 69% according with the extraction combination that used. Extraction using taxonomy can generate more features, this is proven by the recall value that could reach 89,3%, but the precision value is decreasing. This caused by one of the feature candidate can generate two new feature candidates if the feature reference is matched with seeds taxonomy. The amount of feature that exceed the feature accuracy offset in feature judgement that could make low precision value.

Keywords : Feature, Opinion, Pattern Knowledge, Taxonomy.