

## **Abstract**

E-mail classification whether the e-mail is a spam or ham will greatly assist us in filtering e-mails in our inbox to get rid of unwanted ones which is called spam. It certainly needs to be done automatically based on desire rule. But with the growing spamming techniques force us to increase the variation of these rules and of course the determination of the rule also needs to be done automatically.

Therefore we need a learning method of automatic rule generation mechanism based on data that already exists. This technique can find the rules automatically and is expected to be generally applicable for unclassified data. One technique that can be used is the method in accordance with the concept of Cyc Ontology.

With Cyc Ontology concepts can be generated by a function or program that can generate a rule based on the similarity of the semantic value of an e-mail with data that already exists. This is the reference in the process of classification.

In this final project, we made software to implement the concept of Cyc Ontology for rule generation and classification processes on the spam filtering. The results indicate that the determination of a more complex rule gives a higher accuracy.

Keywords: spam filtering, rule, classification, cyc, ontology.