ABSTRACT

Text classification is the process of placing a text to a category or class in accordance with the characteristics of the text. In each of the stages the document refer to one particular class of process needed to dig up the information from the document. The classification used in the process of looking for a set of model or function that distinguishes class from the data. In this case the data to be classified is scientific publications in the form of paper, journal and pro-ceeding in the field of Computer Science. The DataSet is divided into training and testing data data. On the classification of the learning data, conducted training that where there is an attribute that is specified as a class. Algorithm of Support Vector Machine (SVM) using One-multiclass Againts-One (OVO) have better performance compared to other algorithms such as One-Againts (OVA)-All SVM and Multinomial naïve bayes. From the results of an experimental algorithm One-Againts-One (OVO) produces the accuracy of 71.23%. To increase the performance of classification using feature selection of Chi-square (x^2)so the accuracy increased to 72.14%. Comparison of the composition of generating accuracy of 73.9% in comparison of the composition of data train of 90% and a 10% test data.

Kata Kunci : text classification, multiclass support vector machine, One-Againts-One, One-Againts-All