

Abstract

Automatic detection of argument from text document by classifying sentences into argument component has been done by several researcher and has produced various classification accuracy results. The identification of argument components made by Christian Stab by building sentesnce features resulted in a good level of accuracy using Support Vector Machine. In this paper, development is carried out using the SVM method combined with Neural Networks and using Convolutional Neural Network Architecture to classified argument component in persuasif essay. The results show that this method can work well for relatively few argument classes in the corpus essay and produces an average accuracy 76% and average F1-Score 71.4%.

Keywords: argumentation mining, classification, support vector machine, convolutional neural network.