

## ABSTRACT

*Song is a musical unity consisting of an arrangement of tones and there are lyrics in it. Lyrics are words that are voiced alongside melodies. Song lyrics play a role in building emotions. Emotions on again explain the emotional meaning inherent in a klib song.*

*This research will be conducted emotional classification on song lyrics starting with dataset collection in the form of song lyrics on <https://lirik.kapanlagi.com/> website, <https://liriklaguindonesia.net/>, and <http://liriklaguanak.com/> as a provider of song lyrics. Then preprocessing data consists of transform cases, tokenizing, stop removal, and stemming. After that, the part of speech (POS) tagging process is done to label the word in the text according to the word class automatically. The process of labeling a word whether it's a verb, adjective, or attack. To be able to determine the emotional lyrics of the song according to what we listen to, it takes the right method of classifying the text.*

*Fatimah Wulandini's study entitled "Text Classification Using Support Vector Machine for Web Mining Based Spatio Temporal Analysis of the Spread of Tropical Diseases" that SVM method shows the best accuracy of 90% in the case of classification of Indonesian text information compared to Naive Bayes classifier and k-Nearest Neighbor classifier method with only 80% accuracy.*

**Keywords:** *support vector machine, particle swarm optimization, emotion*