ABSTRACT

Emotions are one of the body languages that involves many aspects such as

behavior, actions, thoughts, and feelings. Emotions take many forms. Emotions can

also be used as a medium for implicit messaging. However, sometimes humans

cannot define the meaning of these emotions, especially in children. Parents often

feel confused due to emotional changes in their children, so they are confused about

how to deal with emotions in children.

There are so many ways to find out the emotions of a children.one of which

is by classifying emotions based on facial expressions and body gestures. This

classification method can use the K-Nearest Neighbor algorithm by using a dataset

that has known emotional classes based on attributes and sample data from training

data. In this data, a dataset from EmoReact is used which contains data on children's

expressions which include several expressions such as happy, sad, afraid, angry,

and neutral.

The result of this study is that K-nearest Neighbor algorithm result in

training model get 99.89% and can classify emotion in children with an accuracy

45%.

Keyword: Emotions, Classification, Expression, K-nearest Neighbor

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