

ABSTRACT

Every child has their own personality and potential from birth. Most parents certainly want to know their innate potential or personality so that they can determine the educational method and what field is suitable for their child. Generally parents pay attention to learning activities or ask for help from psychologists through a series of psychologist tests (psychological tests) and interviews.

Currently the latest method is found by analyzing fingerprint patterns, fingerprints of a person's hand is a very unique feature, because no one has the same fingerprint pattern. Some have learned that fingerprint patterns are related to one's character.

Then it will be discussed the design and discussion of the system of classifying a person's character based on fingerprint patterns using the Maximum Random Forest and Entropy method that can be done through a data or fact that moves forward towards a conclusion and uses theory.

The two classification methods have different accuracy, the maximum entropy has a lower accuracy that is 44% compared to the Random Forest 95% which involves the maximum entropy is not too good for multi-class classification.

Keyword: *Image Processing, Expert System, Random Forest, MaximumEntropy, Fingerprint, Nature*