

ABSTRACT

Palm print verification is a process to identify a person's hand, so the system knows the name of the palm print owner. Pattern recognition technology in the palmprint included in the category of image processing techniques that use characteristics of the palm lines. Currently the introduction of a person's palm can be performed by using software application based on digital image processing. With this application, it will facilitate a system to recognize and know the genuine user of a system.

feature extraction that used in pattern recognition system of this palmprint use fractal dimension as well as support order 1 and order 2. Euclidean distance is used to identify the owner of the verified palm.

The result shown is how a system can recognize a person's palm pattern by displaying the name of the palmprint owner. Designed system has a success rate of 82.83 % total accuracy to recognize the palm print pattern. It shows the success of the accuracy of the system to recognize the palm print pattern.

Keywords: verification, fractal, order 1, order 2, Euclidean distance