ABSTRACT

Forensic science is really needed nowadays. There is many feature of forensic science, such as odontology forensic. Odontology forensic is medical science that used by law. The number of natural disaster and transportation accident making this forensic science is really needed to identify the victims. Identify can be age, name,and etc.

Usually forensic experts used the panoramic rontgen to determine the estimated age of the victims. But the fact is the process of identification need a long time, so that with the development of technology such as image processing, this problem can be fixed.

In this final project , identification of age classes start from scanning of panoramic rontgen as the input and age class clasification as the output of the sistem. This final project, comparing 2 feature extraction such as PCA and LBP, and Backpropagation Artificial Neural Network as the clasification.

The result of this final project is a program with Matlab base that obtain the average of accuration by 81.53% for the identification of age classses use Bacpropagation Artificial Neural Network as the clasification.

Keyword :Principal Component Analysis, Local Binary Pattern, Backpropagation Artificial Neural Network