ABSTRACT

Panoramic Biometric can help to identify the age of victims – the victims of

such cases, mutilation, murder and the victims of natural disasters. Biometric

Identification with the panoramic is a process that will be performed to detect age

using cavity pulpa and root canal molar teeth first.

An end result of the root image on the first molar teeth of the mandible using

certain techniques passed through a series of stages. Using the method of Discrete

Wavelet Transform (DWT) and the image will be classified using the classification

Decision Tree to get the age grouped by age range for each age-class, starting from

age 6 to 60 of the year.

It had a final project results the program able to perform detection of age

based on broad first mandibular molar teeth pulpa. The best accuracy is obtained

on the DWT of 71.13% and computational time of 0.12 seconds, which was built

to assist the dentist and forensics to detect the age based on the image of the first

mandibular molar teeth for every individual..

Keywords: Molar, Mandibular, Biomertric, Discrete Wavelet Transform (DWT),

Decision Tree