

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, Biometric, Discrete Wavelet Transform (DWT), Decision Tree