

ABSTRACT

In the medical world, there's still occurs service dissatisfaction caused by lack of deficiency in blood testing group facility. If the test is carried out in large numbers, there will be lot of problems and needs an electronic tool to help determine blood type. This persuade the author to have a research by applying the Euclidean Distance method to determine blood type.

Euclidean Distance is one of the method used for image processing. This method is a simple technique by calculating the nearest distances of the sample image which in this research using blood samples as the input system. Stages of the process are to perform preprocessing on the blood sample image, then describe the method with using the C language, and then integrate the final results into the microcontroller.

The application of the Euclidean Distance method in this research give more than 70% success rate of the result performance.

Key words: blood type, Euclidean Distance, image processing.