ABSTRACT

Iridologi is a method detection of weakness organ from iris eyes. Iris is an extension of the brain. Therefore, anything recorded in the brain can be seen in the fibers of the iris. The tape as a form of organ-specific conditions. Signs in the iris represents a detailed picture of the overall body condition.

This Final Task is produce an analysis which provides a state of the colon using iridologi method. To translate the iris, then designed an application from matlab using wavelet transform and fuzzy logic as an interpreter. System testing performed at the iris image into a state of colon abnormalities that classification as a Normal, Balloned Sigmoid, prolapse, stricture or spasm. In addition to the testing system is also tested on the input image has suffered resize, rotation and a gaussian noise was added.

This final result in the classification accuracy rate of colon abnormalities is fairly high, 72.6% for the image that have pupils and 82.7% for images without pupil. To experience the process of resizing the image and the classification accuracy is the same as a normal image, which means that the system is stable for this final image resizing experience. However, the final task of this system can't work on images that have rotation and given a gaussian noise. computing time required is also quite short, 20.4 seconds for the image that undisturbed resize, rotate and noise, while for the disorder, obtained time was 25.8 seconds for the image resize, image 27.3 for the given a gaussian noise and 22.2 for the experienced image rotation

Keywords: Fuzzy Logic, wavelet transform, Iridologi