ABSTRACT

Thesis performed at 54 pages, it contains 2 applications and a list of references to used source of 20 items. In this paper the 19 figures and 3 tables.

The paper analyzes the existing methods specified tasks: threshold processing, discharge areas, edge detection. Done comparing them in terms of edge detection accuracy and efficiency in the application of the MRI images. To solve the problem in the Otsu method selected for determining the threshold binary image, and the level set method to determine the outline of objects in an image.

Developed an automated system that implements the method chosen. Completed tests developed system.

Keywords: MRI image, segmentation, identification, filtering, threshold, pathology.