

Segmentation Stroke Objects based on CT Scan Image using Thresholding Method

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Abstract — Brain image segmentation is one of the most important parts from a clinical diagnostic tool to determine the characteristics of a particular stroke type. Find anatomical contours and the location of the stroke to characterize the type of stroke perfectly in segmentation is very difficult this research proposes an approach to image segmentation by the process of separating objects from other objects in CT Scan images. CT scan image segmentation uses the thresholding method with the Binarization process. Implementation of the Threshold method is Global binary thresholding, and Otsu thresholding. Preprocessing images to make repairs before segmentation. The dataset is used from Surabaya Haji General Hospital and public data. The results of this experiment is improved image evaluated using peak signal-to-noise ratio (PSNR) and mean-square error (MSE), the best results were seen in bilateral filtering with a PSNR value of 69% MSE which was the lowest 0.008%. The best stroke object segmentation results using Otsu Thresholding by determining the lower threshold with a High Value of ≤ 170 .

Keywords – Stroke, Segmentation, Thresholding, Noise removal

I. INTRODUCTION

Type of stroke is divided into two types of ischemic stroke when the blood supply to part of the brain is suddenly interrupted, the Stroke Hemorrhagic when the brain blood vessels rupture. Computed Tomography Scanning / CT Scan is one of the diagnostic tests performed to find out how the brain is seen when a stroke occurs. CT scan images that have a thick size will produce a picture with low detail, on the contrary a thin size will produce high detail. If the thickness rises, artifacts will arise and if too thin there will be noise [1][2].

Brain image segmentation is one of the most important parts of a clinical diagnostic tool. Finding the anatomic contour and location of the stroke to characterize the type of stroke perfectly in segmentation is very difficult. this research proposed an approach to image segmentation with the process of separating the object from the location of the stroke with other objects from the CT Scan image. CT scan image segmentation is performed using the Thresholding method with the binary process. The threshold method that will be implemented to be compared is adaptive thresholding, Global binary thresholding, Otsu thresholding.

Before doing segmentation, image repairs will be done, because the CT scan of the brain contains mostly noise, artifacts. It is important to remove noise before image segmentation start. the most common noise seen in CT images

are Salt and Pepper noise, Speckle noise, Gaussian noise [3][4]. Image repair will be done by applying Noise Removal to CT scan images. Filters that will be implemented are median Filtering, Gaussian Filtering and Bilateral Filtering. from the three filters the Best filter will be taken for Image repair Performance is evaluated using Peak Signal-to-Noise Ratio (PSNR) and Mean Squared Error (MSE). The best results will be implemented in Stroke Object Segmentation.

II. RELATED WORK

Jodhman et al. conducted a study of stroke classification which was classified as three ischemic stroke classes, hemorrhagic stroke and normal through CT Scan image images as a dataset. The steps taken are preprocessing digital images consisting of gray scaling to convert images to gray, scaling to reduce image pixels so that time is efficient. Process the Contrast Limited Adaptive Histogram Equalization (CLAHE) to increase image contrast[5].

Siddique et al. In this study the implementation of segmentation using the Thresholding Otsu method on digital images by setting the threshold for the image in Otsu applied. The Otsu method is carried out to study thresholds that can maximize the variance between classes or the equivalent of making light in the class variance of the entire image. The result of this paper is to compare three types, namely original image, Otsu thresholding level 2 image and Otsu Thresholding level 3 image[6].

Pannirselvam et al. in this paper analyzed various filters and proposed a new methodology for fingerprint pre-processing. In this paper use Bilateral Filters, High boost filters and Gaussian filters for efficient fingerprint image quality. In the proposed methodology, the original is filtered using a High Pass and Gaussian filter to remove noise[7].

Shima et al. this study detected kidney lesions using abdominal CT scans. This paper was conducted for the pre-processing of abdominal CT scan images so that the kidneys were grouped for further analysis of lesion detection. Various noise filters and segmentation techniques have been tried to select the best filters and segmentation techniques for CT image pre-processing. Experimental studies found that the Median filter combination followed by Wiener filter was more effective for removing the different noise present in CT images. Different segmentation techniques have been carried out on CT image test data sets and it was observed that Edge-based active contours yield better results than Graph Cut and region-based active contours[8].

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Improving Undergraduate Instruction in Science, Technology, Engineering, and Mathematics National Research Council,Division of Behavioral and Social Sciences and Education,Center for Education,Committee on Undergraduate Science Education,Steering Committee on Criteria and Benchmarks for Increased Learning from Undergraduate STEM Instruction,2003-06-28 Participants in this workshop were asked to explore three related questions 1 how to create measures of undergraduate learning in STEM courses 2 how such measures might be organized into a framework of criteria and benchmarks to assess instruction and 3 how such a framework might be used at the institutional level to assess STEM courses and curricula to promote ongoing improvements The following issues were highlighted Effective science instruction identifies explicit measurable learning objectives Effective teaching assists students in reconciling their incomplete or erroneous preconceptions with new knowledge Instruction that is limited to passive delivery of information requiring memorization of lecture and text contents is likely to be unsuccessful in eliciting desired learning outcomes Models of effective instruction that promote conceptual understanding in students and the ability of the learner to apply knowledge in new situations are available Institutions need better assessment tools for evaluating course design and effective instruction Deans and department chairs often fail to recognize measures they have at their disposal to enhance incentives for improving education Much is still to be learned from research into how to improve instruction in ways that enhance student learning

Evaluating and Improving Undergraduate Teaching in Science, Technology, Engineering, and Mathematics National Research Council,Division of Behavioral and Social Sciences and Education,Center for

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