Abstract

The number of elder people that are affected by Age Related Macular Degeneration (ARMD) is increasing every year. The ARMD is a retinal disease that affect the macula part. Because ARMD is indicated by a bright region on infected area, a segmentation process can be performed to differentiate the healthy area from the degenerated area. Manual segmentation technique is hard to be implemented because it is time consuming. In this final project, an automatic segmentation is implemented to overcome this problem. The segmentation process is implemented using region growing method [1]. Subsequently, the method calculates the degenerated region.

This model is evaluated on a dataset that consists of 5 fundus retinal images. The performance of the model achieve about 85%-95% in terms of accuracy.

Keywords: Segmentation, Age-related macular degeneration, Region growing, Optic disk, macula
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