A REVIEW OF SEGMENTATION METHODOLOGIES FOR RETINAL STRUCTURES

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ABSTRACT

Segmentation techniques of retinal anatomical structures (blood vessel and optic disc) aid during mass screening for retinal diseases. This review paper describes the blood vessel segmentation techniques and optic disc segmentation techniques. The aim of this paper is to review, analyse and categorize the retinal vessel and optic disc extraction techniques, giving a brief description, highlighting the key points and the performance measures. Performance measures include accuracy, true positive rate, false positive rate which is plotted on chart for comparative analysis of the results for blood vessel segmentation and overlap ratio, success rate for optic disc segmentation.

KEYWORDS: Blood Vessel Segmentation, Optic Disc Segmentation, Retinal Structures, Review