Abstract

The rapid development of digital imaging & computer vision has made an increase in potential to use the image processing technologies in ophthalmology. Image processing systems has become now a standard clinical practice with the development of medical diagnostic systems. The retinal images provide vital information about the health of the sensory part of the visual system. Retinal diseases like Glaucoma, Diabetic retinopathy, Age-related macular degeneration, Stargart's disease, retinopathy of prematurity that can lead to blindness manifest as artifacts in the retinal image. The retinal images usually suffer from non-uniform illumination. For a reliable diagnosis of the disease we need a good quality image. We are using two approaches for localization 1) Hough Space, 2) dividing the region into $n \times n$ regions. For the segmentation of the ONH we are using Pyramidal decomposition method.
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Index Terms

Computer Science
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Keywords

Glaucoma  Age-related Macular Degeneration  Stargart's Disease  Diabetic Retinopathy
Fundus Image