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A Novel Method For Glaucoma Detection

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Abstract: Literature review revealed that glaucoma is an eye disease which leads to vision loss when untreated, so detecting the disease in time is very important. Many glaucoma risk factors are the vertical cup to disc ratio (CDR) , disc diameter, per papillary atrophy (PPA)etc, here the CDR ratio is mainly calculated to detect the presence of the disease. The nerves enter into the eye through the optic disc and optic cup is interior of the disc. AS the disc gets affected the optic cup enlarges and occupies the disc area. The current test based on intraocular pressures not sensitive for glaucoma screening. The proposed method makes use of the region growing algorithm for glaucoma detection by optic disc and optic cup segmentation on both normal and glaucoma images. Experimental results are are expected cto show a better performance.