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SMART DETECTION OF MICROANEURYSMS FROM COLOR FUNDUS IMAGES IN DIABETIC RETINOPATHY BY IMAGE PROCESSING TECHNIQUE

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ABSTRACT

Diabetic retinopathy is a complication and main cause of vision loss for the diabetic patients. Microaneurysms are the major sign of diabetic retinopathy. This paper presents a morphology-based method for the smart detection of diabetic retinopathy through Microaneurysms from color fundus images. Proposed approach is applied on fundus images and results are satisfactory and are compared with the ophthalmologists' hand drawn ground truths.

KEYWORDS: Diabetic, Retinopathy, Microaneurysms, Exudates, Haemorrhages, Blindness