Abstract

Diabetic is one of the leading disease all over in the world. The patient who is suffer with the diabetic, they may cause the diabetic retinopathy. Diabetic retinopathy categorize into the no of lesions such as microaneurysms, hemorrhages, cotton wool spots and exudates. Cotton wool spots are caused by retinal nerve fiber layer microinfarcts. Detonated retinal ganglion cell axons extrude their axoplasm like toothpaste. Proposed algorithm is develop for extraction of cotton wool spot lesion from the fundus images. For extraction of this lesion we apply multi
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resolution analysis by using symlet wavelet on fundus images databases. Like STARE, DRIVE, DiarectDB0, DiarectDB1 & SASWADE. After extraction of the lesion we apply K-Means clustering algorithm for the classification. The proposed algorithm is achieves 92% accuracy for lesions extraction.

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**Index Terms**

Computer Science  
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**Keywords**

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