Multilevel Segmentation of Fundus Images using Dragonfly Optimization

International Journal of Computer Applications
Foundation of Computer Science (FCS), NY, USA

Volume 164 - Number 4

Year of Publication: 2017

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10.5120/ijca2017913616

Abstract

This paper presents a self adaptive dragonfly optimization (DFO) based methodology for performing multilevel segmentation of colour fundus images. The multilevel segmentation problem is formulated as an optimization problem and solved using the DFO. The method optimizes the threshold values for each of the three chromatic channels of colour fundus images through effectively exploring the solution space in obtaining the global best solution. The results of two fundus images illustrate the performance of the developed method.

References


**Index Terms**

Computer Science

Image Processing
Keywords

fundus images, multilevel segmentation.