Multilevel Segmentation of Fundus Images using Dragonfly Optimization

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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.