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Consideration of Canny Edge Detection for Eye Redness Image Processing: A Review

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Abstract

Eye redness can be taken as a sign of inflammation which may suggest severity and progression of a specific disease. In image processing, there is apportioning a digital image into relevant features in sets of pixels where is called image segmentation. The image that consists of numerous parts of different colors and textures need to be distinguished in this process. In each digital image, the transformation of images into edges was using edge detection techniques. It represents the contour of the image which could be helpful to recognize the image as an object with its detected edges. The Canny edge detector is a standard edge detection algorithm for many years among the present edge detection algorithms. This paper focuses on important canny edge detection for detecting a region of interest (ROI) in eye redness images. © 2019 Published under licence by IOP Publishing Ltd.

Index Keywords

Edge detection, Green computing, Object detection, Signal detection, Textures; Canny edge detection, Canny edge detectors, Digital image, Edge detection algorithms, Region of interest, Relevant features; Image segmentation

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