Abstract

Gaussian filter has an important role in edge detection. In this paper, a new methodology for edge detection using Gaussian second order derivative filters is proposed. Channel separation for Retinal Colour Fundus image is used followed by Gaussian filter. The performance of our proposed method has been assessed on 23 images representing the publicly available dataset; High-Resolution Fundus (HRF) Image Database.

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Implementation of Improved Gaussian Filter Algorithm for Retinal Fundus Images


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Index Terms

Computer Science

Algorithms

Keywords

Gaussian filter, Gaussian second order derivative filter, Fundus image