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An Enhancement Method for Color Retinal Images Based on Image Formation Model

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Highlights

- A new enhancement method based on image formation model is proposed to enhance the color retinal images.
- This enhancement method can deal with illumination problems, contrast enhancement, and color preservation in color retinal image simultaneously.
- This enhancement method can improve the poor quality of retinal image caused by different factors, which facilitates the reliable clinic diagnosis.
- Experimental results indicated that better enhancement image can be produced compared with state-of-art algorithms, especially for blurry retinal images.

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