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Enhancement and Restoration of non-uniform illuminated Fundus Image of Ratina obtained through thin layer of Cataract

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## Highlights

- A novel method is proposed based on the cataract physical model to reduce the generated blurriness of the fundus image
- Image acquisition through thin layer of cataract by the fundus camera and then enhancement of the images with an objective on contrast perfection with no preamble of artifacts
- Gamut less image enhancement by intensity histogram equalization in adapted Hue Saturation Intensity (HSI) color image space
- The resulting image show appropriate brightness and saturation, enhance contrast, reinstate the color space information and maintain complete information

Chip Marine

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