Abstract

This paper presents a new method for poor lighting contrast enhancement of MRI images based on the Weber’s law. Background of MRI images is identified by using the contrast
enhancement transformations. The contrast image transformation can be defined by two operators: opening and closing. The first operator employs information from block analysis, while the second transformation utilizes the opening by reconstruction. Opening by reconstruction is used to define the multi background notion. The objective of contrast operators is normalizing the grey level of an input MRI image by using the contrast operator. The normalization process will enhance the quality of MRI images by avoiding abrupt changes in intensity among different regions.

References

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Analysis of Background Detection and Contrast Enhancement of MRI Images


Index Terms
- Computer Science
- Signal Processing

Keywords
- Image background
- Morphological contrast
- Morphological filters by reconstruction
- Multi background
- Weber’s law