Abstract

For a detailed visibility of an image, since only the global enhancement is not sufficient, local contrast enhancement plays a great role. One of the successful locally adaptive image contrast enhancement methods is by using Local Standard Deviation (LSD). The contrast enhancement using LSD is successfully used in many applications like in medical images, real time images, surveillance applications and many others. These types of applications employ a contrast factor which is divided by LSD. For such type of methods, limitation occurs when the LSD becomes zero. This limitation due to divide by zero can be overcome by adjusting the LSD to a modified value.
Local Contrast Enhancement using Local Standard Deviation

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Index Terms

Computer Science

Image Processing

Keywords

Local Contrast Enhancement  Local Standard Deviation  Divide-by-zero  Removal