Abstract

Digital image processing remains a challenging domain of programming. All digital images contain some degree of noise. Often times this noise is introduced by the camera when a picture is taken. Image denoising algorithms attempt to remove this noise from the image. In this paper the method for image denoising based on the nonlocal means (NL-means) algorithm has been implemented and results have been developed using matlab coding. The algorithm, called nonlocal means (NLM), uses concept of Self-Similarity. Also images taken from the digital media like digital camera and the image taken from the internet have been compared. The image that is taken from the internet has got aligned pixel than the image taken from digital media. Experimental results are given to demonstrate the superior denoising performance of the NL-means denoising technique over various image denoising benchmarks.
Analysing Image Denoising using Non Local Means Algorithm


Analysing Image Denoising using Non Local Means Algorithm

Index Terms

Computer Science  Image Processing

Keywords

ASIC  Image denoising  Non-Local Means (NL-means) Algorithm  VHDL