Abstract

Asymmetric Trimmed Median Filter for Image denoising is proposed in this paper. This technique can be used for restoring the images extremely corrupted with random valued impulse noise. This paper introduces an impulse detection technique and decision based median filter for restoring the corrupted images. The detection technique is used for discriminating between corrupted and uncorrupted image pixels. The corrupted pixels are restored using Asymmetric trimmed median filter. The performance of the proposed restoring scheme is evaluated with random valued impulse noise for different test images. Simulation results show that this method is significantly better than a number of existing techniques in terms of image restoration and noise detection.

References


**Index Terms**

- Computer Science
- Signal Processing

**Keywords**

- Impulse Noise
- Median Filters
- Image Processing
- Restoration