Impulse Noise Detection and Filtering in Switching Median Filters

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Abstract

The switching median filter has proved to be quite effective in removing impulse noise. Noise detection plays a significant role in filtering. The proposed algorithm consists of two iterations for detecting noisy pixels. An exhaustive list of simulation results for various types of images shows that the peak signal to noise ratio of the proposed algorithm is high compared to the existing algorithms.

References

- G. Pok, J.-C. Liu, and A. S. Nair, "Selective removal of impulse noise based on

Index Terms

Computer Science

Signal Processing

Keywords

Impulse Noise  Peak Signal To Noise Ratio  Switching Median Filter