

AN NOVEL APPROACH FOR THE REMOVAL OF IMPULSE NOISE USING MEDIAN FILTER

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ABSTRACT

In this paper we have proposed a new decision based algorithm for the removal of salt and pepper noise, also known as bipolar impulse noise. Here, comparison of matrices such as 3 x 3, 5 x 5, 7 x 7, 9 x 9, 11x11 is performed using median filtering techniques. From the result obtained, it is found that 5 x 5 is better to produce the clear noise free image with high degree of salt and pepper noise elimination compared to previously proposed method. This is done with the help of MATLAB coding by considering the matrix window pixel for the corrupted image.

KEYWORDS: Matrix Window Pixel, Noise- Free Image is Fully Recovered, Adjacent Pixel Value of the Corrupted Image