

**A new algorithm for the restoration of characters in old noisy document**  
**with varying level of intensities**

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**Abstract: -**

An image can have noise and interference from several sources like electrical sensor, photographic grain, and channel errors. Noise cleaning is the process of removing unwanted noise from an image and is necessary for better recognition of characters in a document. These noise effects must be reduced for better analysis of character documents, which will lead to efficient character extraction and recognition process. We have developed a novel algorithm, which is simple and clears noise from character document images to a very good extent. In the proposed methodology, the algorithm is based on intensities, which clears the noises and isolated points present on the document.