

Abstract Details

Title: Anti Compression Forensics for Medical and Satellite Images

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Abstract: Compression is a process by which the description of computerized information is modified so that the capacity required to store or the bit-rate required to transmit it is reduced. This paper describes a technique based on total variation to detect the manipulation in the image. The technique checks whether the given image is original or the dithered noise is added to the compressed image to show it as original. The technique is used to analyze the DICOM and the TIFF images. The dithered noise detection phenomena use the symmetric property of the medical images and the reference image property of the satellite images. The simulation of the technique shows the effectiveness of the technique.

Keywords: Anti-forensics, TV, Q, DICOM, TIFF.