

A NOVEL TECHNIQUE FOR TAMPERING DETECTION

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ABSTRACT

This work presents a scheme to detect whether the tampering has been presented, as well as the location of tampering in digital image. This paper proposed a method to detect tampering by decompose image into overlapping blocks and then calculate the number of connected components in each block. Generate the vector of original image by using the value of each connected components such as $V=[c_1, c_2 \dots c_k]$. The same process is repeated for tampered image and generate the tampered image vector. Calculate the difference between each original image vector and tampered image vector. There are various methods to find connected component such as 4 connected points, 8 connected points. Experimental result shows how to detect tampering location. Connected components are number of pixels which are linked together.

KEYWORDS: Grey Image, DWT, Connected Components