A
Synopsis
On
Image Copy-Move Forgery Detection System

Submitted to

Department of Information Technology

BY

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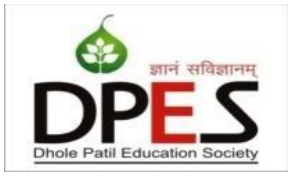

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SYNOPSIS

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Project Title: - Image Copy-Move Forgery Detection System

Domain Name: - Artificial Intelligence

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ABSTRACT

Image have been a powerful media of communication. People have doing *image manipulation* using cost free editing softwares. Photoshop is used for good and bad image manipulation. *Tampering the image* comes under bad manipulation. We can see bad image manipulation in medical field, news media, photography, firm. Falsifying image means tampering the images. Image tampering is a digital art. One who tampers image is just for fun. It comes under illegal activities. Image tampering can not identify in a naked eye. In this paper, we prepared a literature survey about various image forgery detection techniques and finally we concluded the comparative study with some parameters.

Technical Keywords

Image manipulation, tamper detection techniques, image processing, Network security, image forensics

Motivation

- A number of techniques proposed to detect copy-move forgery which can be classified into two main categories such as block-based and key point-based methods.
- Good forgery detection method should be robust to manipulations, such as scaling, rotations, JPEG compression and Gaussian Noise addition made on the copied content.
- These attacks are not detected by the single method.
- The novel approach is proposed to detect image forgery by copy-move under above attacks by integrating block-based and feature-based method to it.

Objectives

The objective of this project is to identify fake images (Fake images are the images that are digitally altered images). We approached the problem using machine learning and neural network to detect almost all kinds of tampering on images.

Algorithms

- Md5 algorithm

- Tetrolet transform

References

- **Lightweight Deep Learning Model for Detection of Copy-move Image Forgery with Post-processed Attacks {Muhammad Naveed Abbas}**
- **Comparative study of digital image forgery detection techniques**
- **Image forgery and its detection: A survey{ Mr.Arun Anoop M}**

Guide Name:
Prof. Prof. Shriganesh Mane