Abstract

Image integrity is one of many aspect that has to be protected especially when the image is used for important case like in court or medical analysis. The protection used on image should not change the image data. Protected image also need to be sensitive from any manipulation which can change image content (intentional attack) and robust to an incidental attack like noise. An Authentication scheme called Multimedia Signature Scheme can be used to identify whether the received image is authentic or unauthentic. MSS uses signature to authenticate image's integrity. The signature used by MSS is generated from image's feature. This final project will propose a digital image authentication scheme based on second-order feature statistic. Feature value which is extracted from the will be used as a signature and embedded into the image using watermarkinf technique. The proposed scheme can protect an image without changing it's content. The accuration value of the scheme is 74.2%. This value proofs that the scheme is sensitive to any manipulation which can change image content and also robust to incidental attack which is not change image content.

Keyword : image authentication, second-order statistic, signature, watermarking, intentional attack, incidental attack .