Abstract

Image encryption has to be conducted prior to image compression. In this paper how to design a pair of image encryption and compression algorithms such that compressing encrypted images can still be efficiently performed. This paper introduced a highly efficient image encryption-then-compression (ETC) system. The proposed image encryption scheme operated in the prediction error domain is able to provide a reasonably high level of security. More notably, the proposed compression approach applied to encrypted images is only slightly worse, unencrypted images as inputs. In contrast, most of the existing ETC solutions induce significant penalty on the compression efficiency.
A Survey based on Designing an Efficient Image Encryption-then-Compression System

References


Jiantao Zhou, Member, IEEE, Xianming Liu, Member, IEEE, Oscar C. Au, Fellow, IEEE,

and Yuan Yan Tang, Fellow, IEEE&quot; Designing an Efficient Image Encryption-Then Compression System via Prediction

Error Clustering and Random Permutation; IEEE TRANSACTIONS ON INFORMATION FORENSICS AND SECURITY, VOL. 9, NO. 1, JANUARY 2014.

Sesha Pallavi Indrakanti Associate professor Department of Computer Applications, GVP Degree College (A),Visakhapatnam. &quot;Permutation Based Image Encryption Technique;&quot; International Journal of Computer Applications (0975 – 8887) Volume 28– No. 8, August 2011

Index Terms

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Keywords

Compression Of Encrypted Image

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