World Academy of Science, Engineering and Technology
International Journal of Computer and Information Engineering
Vol:9, No:01, 2015

Filtering and Reconstruction System for Grey-Level Forensic Images

Authors : Ahd Aljarf, Saad Amin

Abstract : Images are important source of information used as evidence during any investigation process. Their clarity and accuracy is essential and of the utmost importance for any investigation. Images are vulnerable to losing blocks and having noise added to them either after alteration or when the image was taken initially, therefore, having a high performance image processing system and it is implementation is very important in a forensic point of view. This paper focuses on improving the quality of the forensic images. For different reasons packets that store data can be affected, harmed or even lost because of noise. For example, sending the image through a wireless channel can cause loss of bits. These types of errors might give difficulties generally for the visual display quality of the forensic images. Two of the images problems: noise and losing blocks are covered. However, information which gets transmitted through any way of communication may suffer alteration from its original state or even lose important data due to the channel noise. Therefore, a developed system is introduced to improve the quality and clarity of the forensic images.

Keywords : image filtering, image reconstruction, image processing, forensic images
Conference Title : ICIP 2015 : International Conference on Image Processing
Conference Location : Zurich, Switzerland
Conference Dates : January 13-14, 2015

Open Science Index, Computer and Information Engineering Vol:9, No:01, 2015 publications.waset.org/abstracts/15654/pdf