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both techniques has been carried out for experimental purposes which are showed that the original image has a flat histogram after encrypted, a decreasing correlation between adjacent pixels in all colour components and increasing entropy for the cases studied. A comparative study with previous Blowfish algorithm shows the superiority of the modified algorithm.

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I. Introduction

Computer networks have changed how people communicate at present. For example, people can now easily transfer various multimedia files through networks. Among information vectors in multimedia communication, the digital image is one of the greatest significance. Image communication plays a crucial role in information transmission. Accordingly, image ercryption has been drawing increasing attention. Conventional algorithms of encryption, such as Twofish Blowfish and other symmetric ciphers that were developed for textual information are unsuitable for image encryption because of the certain inherent characteristic of images, such as high pixel correlation and redundancy. Consequently, novel image encryption algorithms are urgently required [1] [3].

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