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Adversarial Media Detection Using Convolutional Neural Networks

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Abstract: *Often it becomes necessary for an engineer or somebody else to handle drawings or images of objects, which is in existence. One certainly finds oneself ill-equipped when actually facing the task of having to produce drawings and designs with reasonable accuracy in limited time with security. Securing communications is an important aspect in the present era of digital and wireless communication. The objective of communication security is to protect the message from unauthorized users. Hence we describe an effective method for image encryption which employs logical manipulation of pixel value of the imageusing4out of 8 code and performing the reverse process for decrypting the image. Encryption key may be having the length of 'n' alphanumeric characters, where n should be less than or equal to the size of image (no. of pixels in that image). And here we assign4out of8 code to each alphanumeric character and that is used for pixel manipulation for image encryption.*

Keywords: Image, Encryption, Decryption, 4 out of 8 code

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