

ABSTRACT

This thesis performed at 50 pages, it contains 2 applications and a list of references to used source of 12 items. In this paper the 17 figures and 3 tables.

An overview of the main existing software solutions and methods that can be used both for defining modified images with the possibility of providing analysis parts.

The paper analyzes the existing methods for solving this problem: Double Jpeg Compression, JPEG-Ghost, ELA, Color Filter Array and Higher Order Wavelet Statistics. For solving a task in work the Higher Order Wavelet Statistics method was chosen.

The automated system was designed for images modification search stored on the basis of the selected method. An automated system is developed to determine the nature of the origin of the image, which distinguishes the system from analogues. A test of the created automated system indicated high exactness of the results.

Keywords: digital images, image forgery, wavelet-analysis, classification.