

The thesis is presented in 71 pages. It contains 2 appendixes and bibliography of 23 references. 22 figures and 3 tables are given in the thesis.

The goal of the thesis is to develop mathematical and software tools for solving the problem of duplicate image search.

In the thesis, existing solutions are analyzed, such as content-based methods and watermarking. Radon transform based method was chosen. An automated system implementing and choosed method was developed. The developed system is tested.

Keywords: image, similarity, fingerprint, fingerprinting, duplicate image search.