

ABSTRACT

The thesis is presented in 81 pages. It contains 2 appendixes and bibliography of 22 references. 30 figures and 1 tables are given in the thesis.

The purpose of this thesis is to create mathematical and software for identifying a person's person.

Existing software tools for solving the problem are considered. Investigated and analyzed algorithms and methods of human face identification: the method of using neural networks, the Heming method and the template comparison method. The algorithms and methods of identification of the person are investigated and analyzed: methods of comparison of the standards, based on the allocation of areas of the person in the image, and in the following comparison of these areas for two different images. On the basis of the formulated criteria for solving the problem, an identification method is selected. An automated system that implements selected methods is developed. The testing of the developed system is carried out.

Keywords: identification; Hemingway network; Gabor's function; count of face; comparison of standards.