

Thesis Title	Pattern Recognition of Human Faces
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Abstract

Human being are extremely efficient at image recognition of human faces and can easily distinguish between individual faces. But today architecture of computer with being trained on the type of images based on the learning process. The processing can be carried out by designing proper system to solve problems of details, different perspectives and orientations and noised images. This thesis presents a design and an implementation of a neural network based system for searching and receiving the most five similar pictures of human faces from a database. This database record the pictures of the front views of individual human faces. The system employs a neural network for a group-based classification rather than individual-based classification. This technique makes this system more efficient than the ones that use the later approach. It also solves the problem of the information redundancy, and, hence, within defined condition the accuracy of recognition is approach to 100%. In addition, this system can recognize face pictures which have not been learned before to find the most 5 similar faces and constructing human face recognition system. This system will make more comfortable in memorizing by saving time, make more reliable. and can be developed in the future.