NEW PRINCIPLES OF HUMAN AND ARTIFICIAL INTELLIGENCE

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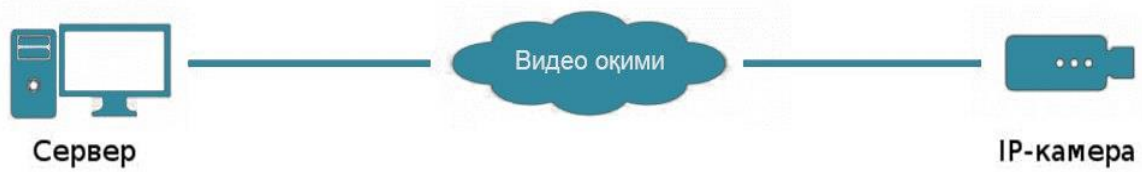
A software system that we have not encountered so often in Hali, but which has been developed in rapid pictures throughout Johon, has high efficiency in many Contexts and demonstrates its useful properties, is a facial recognition system.

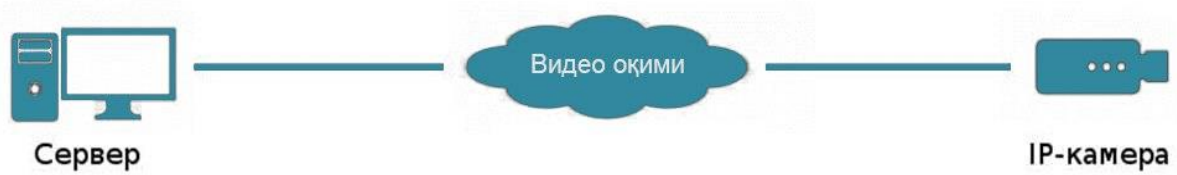
Face recognition (Fase Resognition - English word) is one of the most promising methods of biometric contactless identification of a person by face. For the first time, facial recognition systems were installed on ordinary computers and implemented as programs. In modern Davir, facial recognition technology is used in many ways in video surveillance systems, to control access to obkes, on various mobile and cloud platforms.

The facial recognition system is mainly carried out through the process of matching the faces of people caught in the field of view of surveillance cameras with suitable images of faces that are stored in the database

Analysis of the stream of video recordings on the server, a common scheme for recognizing human faces in modern states, where IP cameras transmit a video stream to the server, through which special software on the server analyzes the video stream and compares images of a human face taken from the video stream with a database by matching and capturing it.



The disadvantages of face recognition in this aos scheme are the high bandwidth of the server due to the high network load, given that even the most powerful server can connect to a limited number of zaraur IP cameras, that is, the more data, the rougher the number of servers.



The analysis of the video stream on IP cameras, in this case, the image analysis is carried out on the cameras themselves, and the processed metadata is transmitted to the server.

This will require special cameras, and an unlimited number of devices with cameras will be able to connect to one service. However, the system is currently used based on a small number of options, since the cost of these cameras is much higher than that of other kaieras. You can also see problematic camera tarfs with the fact that their non-compliance with recognized standards in manufacturers' software systems is connected in various ways in a relationship. issues of influence are solved in different ways.

Unlike its IP camera-based application, in this case kurilma is mainly used for entering and exiting objects, which, naturally, usually do so through a harness or camera. The database of their faces is stored on the device. Such devices are characterized by a low cost of systems compared to video surveillance systems that are used only indoors and are used for face recognition.

The success of the facial recognition system, which occupies a significant place in the Smart City and Chorraha project, which is planned to be implemented, depends on three important factors:

- ★ Human face recognition algorithm
- ★ Database of molded Human faces (links)
- ★ Clear operation of the algorithm

Facial recognition technology, the system consists of a video surveillance camera and software that performs image analysis. Facial recognition software is based on image processing and the calculation of complex mathematical algorithms, which usually require a much more powerful server than server devices than is required for conventional video surveillance systems.

When recognizing faces, the quality level of the software should be in the first place, and the capabilities of the server for database processing should be included. In addition, we must take into account that the image is

not carried out on the server, but directly on the camera device itself, as well as the presence of a database of suitable persons in the memory of such devices.

Another factor in the development of human face recognition technology is high-resolution images, which enable a very detailed analysis of the skin structure due to such high accuracy.

With this analysis, a certain area of the facial skin can be taken as an image, and then divided into smaller blocks that become mathematically measurable algarithms, and the actual skin structure is recorded through the scars on the facial skin. Hatto technology allows you to detect differences between twins by combining facial recognition with surface texture analysis, the accuracy of identification can be significantly increased.

With the correct application of facial recognition technology, the safety and comfort of society become much more noticeable. Biometrics saves us from long and tedious queues at concerts and sporting events, significantly reducing the percentage of theft and crime in general and even saving money through various programs. Such a complex system will certainly require control, which is carried out using data protection rules. Not only security, the biometric system performs many other functions in the infrastructure of cities. Facial recognition technology is used in the financial and transport segments, and is also actively involved in production.

It should be noted that facial recognition for the state is an important part of the security system and an impressive boujet band. However, the facial recognition system certainly works for the benefit of society and helps us control security.

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