CLAIMS

[Claim 1]

An information providing device comprising:

reception means for receiving a face image;

determination means for determining whether a person in the face image is unsuitable for iris data acquisition based on the face image; and

output means for outputting information based on determining that the person is unsuitable for the iris data acquisition when the person is determined to be unsuitable for the iris data acquisition.

[Claim 2]

The information providing device according to claim 1, wherein

the output means outputs, as the information, at least one of information indicating that the person is unsuitable for the iris data acquisition and information that urges the person to stop an action to let iris data of the person to be acquired.

[Claim 3]

The information providing device according to claim 1 or 2, wherein

the determination means detects, from the face image, that the person has a cause that interferes the iris data acquisition, and determines that the person is unsuitable for the iris data acquisition when detecting that the person has the cause that interferes the iris data acquisition.

[Claim 4]

The information providing device according to claim 3, wherein

the determination means determines that the person is unsuitable for the iris data acquisition when detecting that the person has the cause regarding opening of eyelids based on shapes of the eyelids of the person.

[Claim 5]

The information providing device according to any one of claims 1

to 4, further comprising:

iris data acquisition means for attempting acquisition of the iris data from the face image; and

success determination means for performs determination including determining whether the iris data is acquired by the iris data acquisition means and determining whether quality of the iris data acquired by the iris data acquisition means is sufficient to be used for authentication, wherein

the determination means determines whether the person is unsuitable for the iris data acquisition when the iris data is not acquired by the iris data acquisition means or when quality of the acquired iris data is determined to be not sufficient to be used for authentication by the success determination means.

[Claim 6]

The information providing device according to claim 5, wherein

the output means outputs a message to the person when the person is not determined to be unsuitable for the iris data acquisition,

when a new face image is input after the message is output, the iris data acquisition means attempts acquisition of iris data from the new face image, and the success determination means performs the determination, and

the determination means determines that the person is unsuitable for the iris data acquisition when a count of times when the message is output to the person exceeds a threshold in a case where the iris data having quality sufficient to be used for authentication is not acquired even once from the person.

[Claim 7]

The information providing device according to claim 5, wherein

the success determination means calculates, based on information used for the determination, a seriousness of a reason that the iris data

having the quality sufficient to be used for authentication is not acquired when the iris data having the quality sufficient to be used for authentication is not acquired, and records seriousness information indicating the seriousness in a memory, and

the determination means determines whether the person is unsuitable for the iris data acquisition based on a history of the seriousness information.

[Claim 8]

The information providing device according to any one of claims 1 to 7, further comprising:

imaging means for generating a face image by imaging; and

registration means for registering, in a database, a pair of the acquired iris data and identification information of the person when the iris data of which quality satisfies a predetermined criterion for authentication processing using the iris data is acquired.

[Claim 9]

An information providing method comprising:

receiving a face image;

determining whether a person in the face image is unsuitable for iris data acquisition based on the face image; and

outputting information based on determining that the person is unsuitable for the iris data acquisition when the person is determined to be unsuitable for the iris data acquisition.

[Claim 10]

A storage medium storing a program causing a computer to execute:

reception processing of receiving a face image;

determination processing of determining whether a person in the face image is unsuitable for iris data acquisition based on the face image; and

output processing of outputting information based on determining that the person is unsuitable for the iris data acquisition when the person is determined to be unsuitable for the iris data acquisition.