[DESCRIPTION]

[Title of Invention]

INFORMATION PROCESSING APPARATUS, INFORMATION PROCESSING METHOD, AND STORAGE MEDIUM

[Technical Field]

[0001]

The present invention relates to an information processing apparatus, an information processing method, and a storage medium.

[Background Art]

[0002]

Patent Literature 1 discloses an authentication device that matches a user's face image captured by a camera with a registrant's face image stored in advance in a database and authenticates the user based on the matching result. If the matching result of the face matching is that the matching is successful, the authentication device further compares a level value related to security authority set in advance for the user with a predetermined threshold and thereby makes a final decision as to whether or not the authentication is successful. The authentication device then controls an electronic lock into a locked state if the user does not satisfy both the determination conditions.

[Citation List]

[Patent Literature]

[0003]

PTL 1: Japanese Patent Application Laid-Open No. 2006-336364

[Summary]

[0004]

In Patent Literature 1, however, there is no disclosure about notification of the reason for an authentication failure or an action to be taken in a case of the authentication failure. Thus, it may be difficult to understand the situation when the authentication device determines not to authenticate a user.

[0005]

Accordingly, in view of the problem described above, the present invention intends to provide an information processing apparatus, an information processing method, and a storage medium that facilitate understanding of the situation when an authentication device determines not to authenticate a user.

[0006]

In a first aspect, the present disclosure provides an information processing apparatus comprising: a matching means for matching biometric information acquired from a user requesting use of a management target with registered biometric information of each of a plurality of registrants; a determination means for determining whether or not a registrant with which a matching result is that the matching is successful out of the plurality of registrants has usage authority of the management target; and an output means for outputting, when the matching result from the matching unit is that the matching failed, outputting first error information, and when it is determined in the determination means that the registrant with which the matching result is that the matching is successful does not have the usage authority, outputting second error information different from the first error information.

[0007]

In a second aspect, the present disclosure provides an information processing method comprising: performing a matching process of matching biometric information acquired from a user requesting use of a management target with
registered biometric information of each of a plurality of registrants; performing a determination process of determining whether or not a registrant with which a matching result is that the matching is

successful out of the plurality of registrants has usage authority of the management target; and when the matching result from the matching process is that the matching failed, outputting first error information, and when it is determined in the determination process that the registrant with which the matching result is that the matching is successful does not have the usage authority, outputting second error information different from the first error information.

[0008]

According to yet another example of the present disclosure, provided is a storage medium storing a program that causes a computer to perform steps of: performing a matching process of matching biometric information acquired from a user requesting use of a management target with registered biometric information of each of a plurality of registrants; performing a determination process of determining whether or not a registrant with which a matching result is that the matching is successful out of the plurality of registrants has usage authority of the management target; and when the matching result from the matching process is that the matching failed, outputting first error information, and when it is determined in the determination process that the registrant with which the matching result is that the matching is successful does not have the usage authority, outputting second error information different from the first error information.

[0009]

According to the present disclosure, it is possible to provide an information processing apparatus, an information processing method, and a storage medium that facilitate understanding of the situation when an authentication device determines not to authenticate a user.

[Brief Description of Drawings]

[CLAIMS]

[Claim 1]

An information processing apparatus comprising:

a matching means for matching biometric information acquired from a user requesting use of a management target with registered biometric information of each of a plurality of registrants;

a determination means for determining whether or not a registrant with which a matching result is that the matching is successful out of the plurality of registrants has usage authority for the management target; and

an output means for outputting, when the matching result from the matching unit is that the matching failed, outputting first error information, and when it is determined in the determination means that the registrant with which the matching result is that the matching is successful does not have the usage authority, outputting second error information different from the first error information.

[Claim 2]

The information processing apparatus according to claim 1, wherein the first error information includes information indicating that the matching failed.

[Claim 3]

The information processing apparatus according to claim 1 or 2, wherein the second error information includes information indicating that the user does not have the usage authority.

[Claim 4]

The information processing apparatus according to any one of claims 1 to 3, wherein the first error information includes information that prompts an informed person to register the biometric information.

[Claim 5]

The information processing apparatus according to any one of claims 1 to 4, wherein the second error information includes information that prompts an

informed person to register the usage authority.

[Claim 6]

The information processing apparatus according to any one of claims 1 to 5, wherein each of the first error information and the second error information is information presented to the user.

[Claim 7]

The information processing apparatus according to any one of claims 1 to 5, wherein each of the first error information and the second error information is information presented to an administrator different from the user.

[Claim 8]

The information processing apparatus according to any one of claims 1 to 7 further comprising a storage means for storing the registered biometric information and the usage authority related to each of a plurality of facilities in association with each other for each of the registrants.

[Claim 9]

The information processing apparatus according to claim 8 further comprising:

a setting means for setting the registered biometric information and the usage authority for each of the facilities; and

a control means for issuing an identifier unique to each of the registrants and registers the set registered biometric information and the set usage authority to the storage means in association with the identifier.

[Claim 10]

The information processing apparatus according to any one of claims 1 to 9, wherein the biometric information is any of a face image, an iris image, a fingerprint image, an auricle image, and a palmprint image.

[Claim 11]

An information processing method comprising:

performing a matching process of matching biometric information acquired from a user requesting use of a management target with registered biometric information of each of a plurality of registrants;

performing a determination process of determining whether or not a registrant with which a matching result is that the matching is successful out of the plurality of registrants has usage authority for the management target; and

when the matching result from the matching process is that the matching failed, outputting first error information, and when it is determined in the determination process that the registrant with which the matching result is that the matching is successful does not have the usage authority, outputting second error information different from the first error information.

[Claim 12]

A storage medium storing a program that causes a computer to perform:

performing a matching process of matching biometric information acquired from a user requesting use of a management target with registered biometric information of each of a plurality of registrants;

performing a determination process of determining whether or not a registrant with which a matching result is that the matching is successful out of the plurality of registrants has usage authority for the management target; and

when the matching result from the matching process is that the matching failed, outputting first error information, and when it is determined in the determination process that the registrant with which the matching result is that the matching is successful does not have the usage authority, outputting second error information different from the first error information.