

storage medium which can improve convenience for a user.

[0006]

According to one aspect of the present disclosure, there is provided an information processing apparatus comprising: an acquisition means for acquiring visitor registration information of a person satisfying a predetermined condition from a database for recording the visitor registration information of the person permitted to enter a management area by a first biometrics authentication; and a control means for performing a second biometrics authentication for a predetermined transaction in the management area using the visitor registration information, wherein the acquisition means acquires, based on the position information in the management area acquired from a portable terminal carried by the person, the visitor registration information of the person existing within a predetermined distance from the execution place of the second biometrics authentication from the database.

[0007]

According to another aspect of the present disclosure, there is provided a server device comprising: an acquisition means for acquiring visitor registration information of a person satisfying a predetermined condition from a database for recording the visitor registration information of the person permitted to enter a management area by a first biometrics authentication; and a distribution means for distributing the visitor registration information to an information processing apparatus for performing a second biometrics authentication for a predetermined transaction in the management area by using the visitor registration information, wherein the acquisition means acquires, based on the position information in the management area acquired from a portable terminal carried by the person, the visitor registration information of the person existing within a predetermined distance from the execution place of the second biometrics authentication from the database.

[0008]

According to another aspect of the present disclosure, there is provided an information processing method comprising: acquiring visitor registration information of a person satisfying a predetermined condition from a database for recording the visitor registration information of the person permitted to enter a management area by a first biometrics authentication; and performing a second biometrics authentication for a predetermined transaction in the management area using the visitor registration information, wherein the visitor registration information of the person existing within a predetermined distance from the execution place of the second biometrics authentication from the database is acquired based on the position information in the management area acquired from a portable terminal carried by the person.

[0009]

According to yet another ~~example~~ aspect of the disclosure, provided is a storage medium storing a program that causes a computer to perform: acquiring visitor registration information of a person satisfying a predetermined condition from a database for recording the visitor registration information of the person permitted to enter a management area by a first biometrics authentication; and

performing a second biometrics authentication for a predetermined transaction in the management area using the visitor registration information, wherein the visitor registration information of the person existing within a predetermined distance from the execution place of the second biometrics authentication from the database is acquired based on the position information in the management area acquired from a portable terminal carried by the person.

[0010]

According to the present disclosure, it is possible to provide an information processing apparatus, a server device, an information processing method, and a recording medium which can improve the convenience of a user.

[Brief Description of Drawings]

[0011]

[Fig. 1] Fig. 1 is a schematic diagram illustrating an example of the overall configuration of a biometrics authentication system in a first example embodiment.

[Fig. 2] FIG. 2 is a block diagram illustrating an example of a hardware configuration of a management server in the first example embodiment.

[Fig. 3] FIG. 3 is a block diagram illustrating an example of a hardware configuration of a check-in terminal in the first example embodiment.

[Fig. 4] FIG. 4 is a block diagram illustrating an example of a hardware configuration of a security inspection apparatus in the first example embodiment.

[Fig. 5] FIG. 5 is a block diagram illustrating an example of a hardware configuration of an automated gate apparatus in the first example embodiment.

[Fig. 6] FIG. 6 is a block diagram illustrating an example of a hardware configuration of a POS terminal in the first example embodiment.

[Fig. 7] FIG. 7 is a block diagram illustrating an example of a hardware configuration of a reception terminal in the first example embodiment.

[Fig. 8] FIG. 8 is a block diagram illustrating an example of a hardware configuration of a boarding gate apparatus in the first example embodiment.

[Fig. 9] FIG. 9 is a sequence chart illustrating an example of the processing of the check-in terminal and

[CLAIMS]

[Claim 1]

An information processing apparatus comprising:

an acquisition means for acquiring visitor registration information of a person satisfying a predetermined condition from a database for recording the visitor registration information of the person permitted to enter a management area by a first biometrics authentication; and

a control means for performing a second biometrics authentication for a predetermined transaction in the management area using the visitor registration information,

wherein the acquisition means acquires, based on the position information in the management area acquired from a portable terminal carried by the person, the visitor registration information of the person existing within a predetermined distance from the execution place of the second biometrics authentication from the database.

~~{Claim 2}~~

~~—The information processing apparatus according to claim 1,~~

~~—wherein the acquisition means acquires the visitor registration information of the person satisfying a predetermined condition from a database for recording the visitor registration information of the person permitted to enter the management area.~~

[Claim 32]

The information processing apparatus according to claim 21,

wherein the acquisition means acquires the visitor registration information of the person associated with the predetermined transaction from the database.

[Claim 43]

The information processing apparatus according to claim 12 or 23,

wherein the acquisition means acquires from the

database the visitor registration information of the person who can use the predetermined transaction in a predetermined time zone.

~~{Claim 5}~~

~~— The information processing apparatus according to any one of claims 2 to 4,~~

~~— wherein the acquisition means acquires the visitor registration information of the person existing within a predetermined distance from the execution place of the second biometrics authentication from the database.~~

~~{Claim 6}~~

~~— The information processing apparatus according to claim 5,~~

~~— wherein the acquisition means acquires the visitor registration information from the database based on the position information in the management area acquired from the portable terminal carried by the person.~~

[Claim 74]

The information processing apparatus according to any one of claims 2-1 to 63,

wherein, when the second biometrics authentication fails, the control means executes third biometrics authentication of the biometrics information of the person used in the second biometrics authentication and the plurality of pieces of the visitor registration information stored in the database.

[Claim 85]

The information processing apparatus according to claim 74,

wherein the control means outputs notification information based on the results of the second biometrics authentication and the third biometrics authentication.

[Claim 96]

The information processing apparatus according to claim 32,

wherein the acquisition means acquires the visitor

registration information of the person associated with settlement information from the database, and

wherein the control means executes the predetermined transaction including settlement process of ~~the-an~~ article and/or the predetermined service based on the settlement information.

[Claim ~~10~~7]

The information processing apparatus according to claim ~~3~~2,

wherein the acquisition means acquires the visitor registration information of the person associated with a predetermined service from the database, and

wherein the control means executes the predetermined transaction for providing the service.

[Claim ~~11~~8]

The information processing apparatus according to claim ~~10~~7,

wherein the predetermined services are delivery services of duty-free goods at facilities installed in the management area of an airport, and

wherein the acquisition means acquires the visitor registration information of the person associated with the delivery service from the database.

[Claim ~~12~~9]

The information processing apparatus according to claim ~~4~~3,

wherein the acquisition means acquires the ~~entry~~ visitor registration information of the person who is permitted to board the aircraft from the database based on the scheduled departure time and the current time of the aircraft associated with the boarding gate provided in the management area of the airport, and

wherein the control means controls passage of the person at the boarding gate.

[Claim ~~13~~10]

The information processing apparatus according to claim ~~4~~3,

wherein the acquisition means acquires the visitor registration information of the person on board the aircraft from the database based on the estimated arrival time and the current time of the aircraft at the airport, and

wherein the control means controls passage of the person at a customs gate provided in the management area of the airport.

[Claim ~~14~~11]

The information processing apparatus according to claim ~~4~~3,

wherein the acquisition means acquires the visitor registration information of the person who is permitted to enter and leave a restricted area set in the management area from the database for each time period, and

wherein the control means controls entry and exit in the restricted area.

[Claim ~~15~~12]

The information processing apparatus according to any one of claims 1 to ~~14~~11,

wherein the control means deletes the visitor registration information of the person who has left the management area.

[Claim ~~16~~13]

The information processing apparatus according to any one of claims 1 to ~~15~~12,

wherein the acquisition means acquires the visitor registration information upon the success of the first biometrics authentication.

[Claim ~~17~~14]

A server device comprising:

an acquisition means for acquiring visitor registration information of a person satisfying a predetermined condition from a database for recording the visitor registration information of the person permitted to enter a management area by a first

biometrics authentication; and

a distribution means for distributing the visitor registration information to an information processing apparatus for performing a second biometrics authentication for a predetermined transaction in the management area by using the visitor registration information,

wherein the acquisition means acquires, based on the position information in the management area acquired from a portable terminal carried by the person, the visitor registration information of the person existing within a predetermined distance from the execution place of the second biometrics authentication from the database.

[Claim ~~18~~15]

The server device according to claim ~~17~~14,

wherein the acquisition means acquires the visitor registration information of the person associated with the predetermined transaction.

[Claim ~~19~~16]

The server device according to claim ~~17-14~~ or ~~18~~15,

wherein the acquisition means acquires the visitor registration information of the person who can use the predetermined transaction in a predetermined time zone.

[Claim ~~20~~17]

The server device according to any one of claims ~~17-14~~ to ~~19~~16,

wherein the acquisition means acquires the visitor registration information of the person existing within a predetermined distance from the location of the information processing apparatus.

[Claim ~~21~~18]

The server device according to any one of claims ~~17-14~~ to ~~20~~17,

wherein the distribution means distributes the visitor registration information to the information processing apparatus upon the success of the first

biometrics authentication.

[Claim ~~22~~19]

An information processing method comprising:

acquiring visitor registration information of a person satisfying a predetermined condition from a database for recording the visitor registration information of the person permitted to enter a management area by a first biometrics authentication; and

performing a second biometrics authentication for a predetermined transaction in the management area using the visitor registration information.

wherein the visitor registration information of the person existing within a predetermined distance from the execution place of the second biometrics authentication from the database is acquired based on the position information in the management area acquired from a portable terminal carried by the person.

[Claim ~~23~~20]

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

acquiring visitor registration information of a person satisfying a predetermined condition from a database for recording the visitor registration information of the person permitted to enter a management area by a first biometrics authentication; and

performing a second biometrics authentication for a predetermined transaction in the management area using the visitor registration information.

wherein the visitor registration information of the person existing within a predetermined distance from the execution place of the second biometrics authentication from the database is acquired based on the position information in the management area acquired from a portable terminal carried by the person.