DESCRIPTION

Title of Invention

INFORMATION PROCESSING DEVICE AND INFORMATION PROCESSING METHOD

Technical Field

[0001] The present disclosure relates to an information processing apparatus and an information processing method.

Background Art

[0002] Techniques for managing entry and exit of a person passing through a gate installed in a station, an airport, or the like are known. Patent Literature (hereinafter, referred to as "PTL") 1 describes an apparatus that, when a person enters a gate from an entrance of the gate while gaining permission for gate passage using a contactless card, tracks whether or not the person has passed through the gate (whether or not the person returns to the entrance of the gate) based on a change in position of the contactless card.

Citation List

Patent Literature

[0003]

PTL 1

Japanese Patent Application Laid-Open No. H09-330440

Summary ~~of Invention~~

[0004] A gate that manages entry and exit is desired to manage which person has passed through the gate. Hereinafter, this management may also be simply referred to as "passage

management" or "tracking management." There is scope for further study on a method of realizing the passage management with a simple configuration.

[0005] One non-limiting and exemplary ~~embodiment~~example of the present disclosure facilitates providing an information processing apparatus and an information processing method that realize, with a simple configuration, passage management of an object (for example, a person) passing through a gate.

[0006] An information processing apparatus according to one exemplary aspect ~~embodiment~~ of the present disclosure includes: an acquirer that acquires an image of a person entering a gate, the image being captured in a direction from an exit of the gate toward an entrance of the gate and including a face image region; a processor that performs a second face authentication process on the person who has been successful in a first face authentication process, the first face authentication process being based on a first face image region in a first image captured in a first area defined for the gate, the second face authentication process being based on a second face image region in a second image captured in a second area defined between the first area and the exit of the gate; and an output processor that produces an output to an effect that the person has passed through the gate, when it is determined by the second face authentication process that the person who has been successful in the first face authentication process and the person included in the second image are an identical person.

[0007] An information processing method according to another ~~one~~ exemplary aspect ~~embodiment~~ of the present disclosure includes steps performed by an information processing apparatus of: acquiring a captured image of a person who enters through an entrance of a gate; executing a first face authentication process based on image information on a first region of a face of the person in a first image, when the person enters the first area; executing a second face authentication process based on image information on a second region of the face of the person in a second image acquired after the first image, when the person is permitted in

the first face authentication process to pass through the gate and when the person enters a second area between the first area and an exit of the gate; and producing an output to an effect that the person has passed through the gate, when it is determined by the second face authentication process that the person who has been successful in the first face authentication process and the person included in the second image are an identical person.

[0008] It should be noted that a general or specific ~~embodiment~~example may be implemented as a system, an apparatus, a method, an integrated circuit, a computer program, a storage medium, or any selective combination thereof.

[0009] One non-limiting and exemplary ~~embodiment~~example of the present disclosure can realize, with a simple configuration, passage management of an object (e.g., a person) passing through a gate.

[0010] Additional benefits and advantages of the disclosed exemplary ~~embodiment~~examples will become apparent from the specification and drawings. The benefits and/or advantages may be individually obtained by the various ~~embodiment~~examples and features of the specification and drawings, which need not all be provided in order to obtain one or more of such benefits and/or advantages.

Brief Description of Drawings

[0011]

FIG. 1 is a diagram illustrating an example of a gate according to an embodiment;

FIG. 2A is a diagram illustrating a conceptual configuration of a passage management system according to an embodiment;

FIG. 2B is a block diagram illustrating a configuration example of the passage management system according to an embodiment;

FIG. 3A is a diagram illustrating an example of zones defined for the gate;

FIG. 3B is a diagram illustrating an example of zones defined for the gate;