determination unit, a speaker, and an indicating lamp. The behaving person detection unit detects a behaving person on the basis of image information captured by the monitoring camera and reference image information stored in the reference image storage unit. The detection area determination unit determines which detection area of the detection areas the behaving person has been detected, on the basis of the behaving person detected by the behaving person detection unit and the detection area stored in the detection area data base. The suspicious individual determination unit determines whether the behaving person is the suspicious individual or not on the basis of the detection area detected by the detection area determination unit. A speaker and an indicating lamp notify existence of the suspicious individual in a case where the behaving person is determined to be the suspicious individual.

SUMMARY

The guard apparatus described in Patent document 1 explained above cannot do things other than detection of simple behavior such as crossing of a prohibited line, entry into a prohibited area, and the like. On the other hand, in recent years, it is desired to detect more complicated behavior such as break-opening a key and then enter thereinto.

~~An exemplary object~~ Embodiments of the present invention ~~is to~~ provide a video analysis technology capable of detecting complicated behavior from a video.

~~A~~According to a first aspect of the present invention, there is provided a video monitoring apparatus ~~according to exemplary aspect of the present invention includes~~ including a first storage which stores a first condition for detecting a first event from a video, a second storage which stores a second condition for detecting a second event from the video, and a output circuit which outputs a signal indicating that a logical relationship designated in advance by the first event and the second event is satisfied.

~~A~~According to a second aspect of the present invention, there is provided a control apparatus ~~according to exemplary aspect of the present invention includes~~ including a first detection circuit which detects a first event which satisfies a first condition from a video, a second detection circuit which detects a second event which satisfies a second condition from the video, and a

determination circuit which determines whether the first event and the second event satisfy some logical relationship or not, based on a detected result of the first event and the second event.

~~A~~According to a third aspect of the present invention, there is provided a control method ~~according to exemplary aspect of the present invention includes~~ that includes the steps of detecting a first event which satisfies a first condition from a video, detecting a second event which satisfies a second condition from the video, and determining whether the first event and the second event satisfy some logical relationship or not, on basis of a detected result of the first event and the second event.

~~A~~According to a fourth aspect of the present invention, there is provided a non-transitory readable storage medium storing a control program that enables a computer to implement ~~according to exemplary aspect of the present invention includes~~ the steps of detecting a first event which satisfies a first condition from a video, detecting a second event which satisfies a second condition from the video, and determining whether the first event and the second event satisfy some logical relationship or not, on basis of a detected result of the first event and the second event.

According to embodiments of the video analysis technology of the present invention, complicated behavior can be detected from a video.

BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a figure illustrating a configuration of a video monitoring apparatus according to a first embodiment of the present invention.

Fig. 2A is a figure for explaining "behavior information about a moving object in a monitoring area" which is an example of a first condition and a second condition according to the first embodiment of the present invention.

Fig. 2B is a figure for explaining "behavior information about a moving object in a monitoring area" which is an example of a first condition and a second condition according to the first embodiment of the present invention.

Fig. 3 is a figure illustrating a configuration of a output circuit according to the first embodiment of the present invention.

Fig. 4A is a figure for explaining detection of a high-level condition according to the first embodiment of the present invention.