In order to reduce the number of graphs to be displayed, setting a representative graph to be displayed for each warning in advance may be considered. However, in a case where a graph to be displayed for each warning is confirmed, a graph that is supposed to be checked may be excluded from a target to be checked. For example, the inexperienced operator may overlook a graph that has to be checked.

[0008]

Embodiments of the present invention provide a display device, a display method, a control device, and a computer program that enable efficient checking of a graph to be checked.

Solution to Problem

[0009]

According to a first aspect of the present invention, there is provided a display device configured to, based on a history of a graph viewed at a time of a warning generated in the past, display selection options of a graph to be viewed at a time of a warning, and display the selected graph.

[0010]

The selection options may be displayed together with a description of at least one graph associated with the warning.

[0011]

The selection options may be displayed based on the number of times the graph viewed at the time of the warning generated in the past is displayed.

[0012]

Furthermore, the selection options may be displayed based on a learning model that is generated using the warning generated in the past and the history of the graph viewed at the time of the warning as training data.

[0013]

According to a second aspect of the present invention, there is provided a display method including a step of displaying, based on a history of a graph viewed at a time of a warning generated in the past, selection options of a graph to be viewed at a time of a warning, and a step of displaying the selected graph.

[0014]

According to a third aspect of the present invention, there is provided a control device including means for displaying, based on a history of a graph viewed at a time of a warning generated in the past, selection options of a graph to be viewed at a time of a warning on a display device, and means for displaying the selected graph on the display device.

[0015]

According to a fourth aspect of the present invention, there is provided a computer program causing a computer to execute a step of displaying, based on a history of a graph viewed at a time of a warning generated in the past, selection options of a graph to be viewed at a time of a warning on a display device, and a step of displaying the selected graph on the display device.

[0016]

The computer program is executed by a computer including a processor, such as the control device illustrated in the present embodiment. The computer program may be recorded on a recording medium such as a non-volatile semiconductor memory in a non-transitory form.

Brief Description of Drawings

[0017]

Fig. 1 is a schematic diagram illustrating an overall configuration of a plant according to an embodiment of the present invention.

Fig. 2 is a functional block diagram of an operation support system.

Fig. 3A is an example of information stored in an alarm setting DB.

Fig. 3B is an example of information stored in a graph setting DB.

Fig. 3C is an example of information stored in a graph viewing history DB.