under inspection from the target to be monitored, based on the operation history in the past. Meanwhile, the countermeasure guideline at a time of issuing the alarm generally does not involve a plant operation. Thus, it is difficult to create the guide information at the time of issuing the alarm based on the operation history of the plant in the past.

[0007]

Furthermore, while it is disclosed that the plant monitoring device disclosed in PTL 1 "selects an operation guide pattern to be referred to from an "operation guide selection pattern list" (Paragraph [0047] and Fig. 6), the operation guide pattern is simply acquired from the operation history of the plant in the past, and addition of new information is not permitted.

[0008]

Embodiments of the present invention provide a display device, a display method, a control device, and a computer program that enable even an inexperienced operator to easily add new guide information.

Solution to Problem

[0009]

According to a first aspect of the present invention, there is provided a display device including: a display screen, wherein the display device is configured to display guide information to be displayed at a time of generating a warning related to an operating status of a plant on a first region of the display screen, to simultaneously display a region for adding the guide information on a second region of the display screen, and to simultaneously display at least one word included in information describing an operating status of the plant in the past and having a high importance for the warning on a different region of the display screen, and the at least one word is extracted by calculating the importance of the at least one word based on the feature amount of the at least one word.

[0010]

In an embodiment, the display device may be configured to display the region for adding the guide information on the second region adjacent to the first region of the display screen.

[0011]

In an embodiment, the display device may be configured to display the information including the extracted word and describing an operating status of the plant in the past on the display screen.

[0012]

In an embodiment, the at least one word may be extracted by executing a step of calculating a feature amount of the at least one word based on the information describing the operating status of the plant in the past, and a step of calculating importance of the at least one word based on the feature amount of the word, and the display device may be configured to display the at least one word on the display screen together with the importance of the word.

[0013]

According to a second aspect of the present invention, there is provided a display method including: a step of displaying guide information to be displayed at a time of generating a warning related to an operating status of a plant on a first region of a display screen of a display device, simultaneously displaying a region for adding the guide information on a second region of the display screen, and simultaneously displaying at least one word included in information describing an operating status of the plant in the past and having a high importance for the warning on a different region of the display screen, and the at least one word is extracted by calculating the importance of the at least one word based on the feature amount of the at least one word.

[0014]

According to a third aspect of the present invention, there is provided a control device that controls a display device including a display screen, wherein the control device is configured to display guide information to be displayed at a time of generating a warning related to an operating status of a plant on a first region of the display screen, to simultaneously display a region for adding the guide information on a second region of the display screen, and to simultaneously display at least one word included in information describing an operating status of the plant in the past and having a high importance for the warning on a different region of the display screen, the at least one word is extracted by calculating the importance of the at least one word based on the feature amount of the at least one word.

[0015]

According to a fourth aspect of the present invention, there is provided a computer program causing a computer for controlling a display device including a display screen to execute: a step of displaying guide information to be displayed at a time of generating a warning related to an operating status of a plant on a first region of the display screen, simultaneously displaying a region for adding the guide information on a second region of the display screen, at the same time, and simultaneously displaying at least one word included in information describing an operating status of the plant in the past and having a high importance for the warning on a different region of the display screen, and the at least one word is extracted by calculating the importance of the at least one word based on the feature amount of the at least one word.

Brief Description of Drawings

[0016]

Fig. 1 is a schematic diagram illustrating an overall configuration of a plant.

CLAIMS

1. A display device comprising:

a display screen,

wherein the display device is configured to display guide information to be displayed at a time of generating a warning related to an operating status of a plant on a first region of the display screen, to simultaneously display a region for adding the guide information on a second region of the display screen, and to simultaneously display at least one word included in information describing an operating status of the plant in the past and having a high importance for the warning on a different region of the display screen, and

the at least one word is extracted by calculating the importance of the at least one word based on the feature amount of the at least one word.

2. The display device according to claim 1,

wherein the display device is configured to

display the region for adding the guide information on the second region adjacent to the first region of the display screen.

3. The display device according to claim 1 or 2,

wherein the display device is configured to

display the information including the extracted word and describing an operating status of the plant in the past on the display screen.

4. The display device according to claim 3,

wherein the at least one word is extracted by executing

a step of calculating a feature amount of the at least one word based on the information describing the operating status of the plant in the past, and

a step of calculating importance of the at least one word based on the feature amount of the word, and

the display device is configured to display the at least one word on the display screen together with the importance of the word.

5. A display method comprising:

a step of displaying guide information to be displayed at a time of generating a warning related to an operating status of a plant on a first region of a display screen of a display device, simultaneously displaying a region for adding the guide information on a second region of the

display screen, and simultaneously displaying at least one word included in information describing an operating status of the plant in the past and having a high importance for the warning on a different region of the display screen, and

the at least one word is extracted by calculating the importance of the at least one word based on the feature amount of the at least one word.

6. A control device that controls a display device including a display screen,

wherein the control device is configured to display guide information to be displayed at a time of generating a warning related to an operating status of a plant on a first region of the display screen, to simultaneously display a region for adding the guide information on a second region of the display screen, and to simultaneously display at least one word included in information describing an operating status of the plant in the past and having a high importance for the warning on a different region of the display screen,

the at least one word is extracted by calculating the importance of the at least one word based on the feature amount of the at least one word.

7. A computer program causing a computer for controlling a display device including a display screen to execute:

a step of displaying guide information to be displayed at a time of generating a warning related to an operating status of a plant on a first region of the display screen, simultaneously displaying a region for adding the guide information on a second region of the display screen, at the same time, and simultaneously displaying at least one word included in information describing an operating status of the plant in the past and having a high importance for the warning on a different region of the display screen, and

the at least one word is extracted by calculating the importance of the at least one word based on the feature amount of the at least one word.