device, and a program that make it possible to easily identify a state change of an object.

Solution to Problem

[0006]

According to a first aspect of the present invention, there is provided a display method for displaying a time-dependent state change of an object based on a plurality of images including a plurality of real images generated by continuous imaging of the object and a plurality of predicted images associated with future imaging times generated based on the plurality of real images, the display method including: a step of extracting pixels disposed on predetermined position coordinates from each image of the plurality of images; and a step of displaying a pixel set in which the pixels are arranged according to an order of imaging of the plurality of images.

[0007]

According to this aspect, a configuration is employed in which the pixels disposed on the predetermined position coordinates are extracted from the plurality of images, and these pixels are arranged according to the order of imaging. Therefore, it is possible to easily identify a time-dependent state change of the object at the predetermined position coordinates.

[0008]

According to a second aspect of the present invention, there is provided a control device that displays and controls a time-dependent state change of an object based on a plurality of images including a plurality of real

images generated by continuous imaging of the object and a plurality of predicted images associated with future imaging times generated based on the plurality of real images, the control device including: a pixel set generation unit that extracts pixels disposed on predetermined position coordinates from each image of the plurality of images, and generates a pixel set in which the pixels are arranged according to an order of imaging of the plurality of images; and a display device control unit that displays the generated pixel set on a display device.

[0009]

According to a third aspect of the present invention, there is provided a display device for displaying a time-dependent state change of an object, the display device is configured to display a pixel set in which pixels arranged on predetermined position coordinates in each image of a plurality of images including a plurality of real images generated by continuous imaging of the object and a plurality of predicted images associated with future imaging times generated based on the plurality of real images are arranged according to an order of imaging of the plurality of images.

[0010]

According to a fourth aspect of the present invention, there is provided a program for causing a computer to execute a display method for displaying a time-dependent state change of an object based on a plurality of images including a plurality of real images generated by continuous imaging of the object and a plurality of predicted images generated based on the plurality of real

images and associated with a future imaging time, the program causes a computer to execute a step of extracting pixels disposed on predetermined position coordinates from each image of the plurality of images, and a step of displaying a pixel set in which the pixels are arranged according to an order of imaging of the plurality of images.

## Advantageous Effects of Invention

[0011]

According to embodiments of the present invention, it is possible to provide a display method, a control device, a display device, and a program that make it possible to easily identify a state change of an object.

## Brief Description of Drawings

[0012]

Fig. 1 is a view for describing an outline of a display system 1 according to the present embodiment.

Fig. 2 is a schematic view showing an example of a functional configuration of the display system 1 according to the present embodiment.

Fig. 3 is a schematic view showing an example of a functional configuration of an image processing unit 30 according to the present embodiment.

Fig. 4 is a schematic view showing an example of a functional configuration of a display control unit 70 according to the present embodiment.

CLAIMS

1. A display method for displaying a time-dependent state change of an object based on a plurality of images including a plurality of real images generated by continuous imaging of the object and a plurality of predicted images associated with future imaging times generated based on the plurality of real images, the display method comprising:

a step of extracting pixels disposed on predetermined position coordinates from each image of the plurality of images; and

a step of displaying a pixel set in which the pixels are arranged according to an order of imaging of the plurality of images.

2. The display method according to claim 1, wherein

the predetermined position coordinates are at least one position coordinate constituting a region having a point, a line, or an area.

3. The display method according to claim 2, wherein

the predetermined position coordinates form a straight line.

4. The display method according to claim 3, wherein

the straight line is parallel to any coordinate axis of each image included in the plurality of images.

5. The display method according to any one of claims 1 to 4, further comprising:

a step of determining the predetermined position coordinates based on the plurality of images.

6. The display method according to any one of claims 1 to 5, further comprising:

a step of displaying at least one image of the plurality of images.

7. The display method according to claim 6, wherein

the step of displaying the at least one image includes a step of displaying the predetermined position coordinates in association with the at least one image.

8. The display method according to claim 1, further comprising:

a step of generating the plurality of predicted images based on the plurality of real images.

9. The display method according to any one of claims 1 to 8, wherein

the plurality of images are processed images obtained by executing a predetermined processing on a captured image generated by imaging the object.

10. A control device that displays and controls a time-dependent state change of an object based on a plurality of images including a plurality of real images generated by continuous imaging of the object and a plurality of predicted images associated with future imaging times generated based on the plurality of real images, the control device comprising:

a pixel set generation unit that extracts pixels disposed on predetermined position coordinates from each image of the plurality of images, and generates a pixel set

in which the pixels are arranged according to an order of imaging of the plurality of images; and

a display device control unit that displays the generated pixel set on a display device.

11. A display device for displaying a time-dependent state change of an object, the display device is configured to display a pixel set in which pixels arranged on predetermined position coordinates in each image of a plurality of images including a plurality of real images generated by continuous imaging of the object and a plurality of predicted images associated with future imaging times generated based on the plurality of real images are arranged according to an order of imaging of the plurality of images.

12. A program for causing a computer to execute a display method for displaying a time-dependent state change of an object based on a plurality of images including a plurality of real images generated by continuous imaging of the object and a plurality of predicted images generated based on the plurality of real images and associated with a future imaging time,

the program causes a computer to execute

a step of extracting pixels disposed on predetermined position coordinates from each image of the plurality of images, and

a step of displaying a pixel set in which the pixels are arranged according to an order of imaging of the plurality of images.