

the operation made toward the image is operation to designate as the viewpoint on the image.

8. The non-transitory computer-readable recording medium
5 according to any one of claims 1 to 7, wherein
the operation made toward the viewpoint listing image
is any one of operation to choose a thumbnail of the
partial image in the viewpoint listing image, and operation
to change a thumbnail of the partial image that is
10 displayed at the predetermined position in the viewpoint
listing image by scrolling on the viewpoint listing image.

9. A display control apparatus comprising:
15 a creating unit that creates, from an image, a partial
image that is an image of a region of a part of the image,
and that includes in a center thereof an arbitrary
viewpoint on the image;

a display control unit that displays, on a display
20 device, a display image that includes the image and a
viewpoint listing image that is a list of thumbnails of a
plurality of the partial images; and

an accepting unit that accepts input indicating a
change of the image in the display image, according to
25 operation made toward any one of the image and the
viewpoint listing image, wherein

the display control unit changes the image in the
display image according to the input indicating a change of
the image, and changes a sequential order of the thumbnails
30 in the viewpoint listing image such that a thumbnail of the
partial image corresponding to a region of the image to be
newly displayed according to the input indicating a change
of the image is displayed at a predetermined position in

the viewpoint listing image.

10. The display control apparatus according to claim 9,
wherein

5 the image is an omnidirectional image.

11. The display control apparatus according to claim 9 or
10, wherein

10 the predetermined position is a position of a center
of the viewpoint listing image.

12. The display control apparatus according to any one of
claims 9 to 11, wherein

15 the image in the display image includes at least one
viewpoint, and

20 the display control unit makes a size of a thumbnail
of the partial image including, in a center thereof, the
viewpoint that is included in the image in the display
image larger than a thumbnail of the partial image
including, in a center thereof, the viewpoint that is not
included in the image in the display image.

13. The display control apparatus according to any one of
claims 9 to 11, wherein

25 the display control unit makes a size of a thumbnail
of the partial image including, in a center thereof, the
viewpoint that is included in the image in the display
image smaller than a thumbnail of the partial image
including, in a center thereof, the viewpoint that is not
30 included in the image in the display image.

14. The display control apparatus according to any one of
claims 9 to 13, wherein

the viewpoint is expressed by a coordinate in a horizontal direction and a coordinate in a vertical direction, and

5 the display control unit arranges the sequential order of the thumbnails of the partial images in the viewpoint listing image based on the coordinate in the horizontal direction.

15. The display control apparatus according to any one of
10 claims 9 to 14, wherein

the operation made toward the image is operation to designate as the viewpoint on the image.

16. The display control apparatus according to any one of
15 claims 9 to 15, wherein

the operation made toward the viewpoint listing image is any one of operation to choose a thumbnail of the partial image in the viewpoint listing image, and operation to change a thumbnail of the partial image that is
20 displayed at the predetermined position in the viewpoint listing image by scrolling on the viewpoint listing image.