CLAIMS

1. A driving assistance apparatus comprising:

a storage unit configured to store detection range information and branch information about a branch of a railroad track, the detection range information representing a correspondence between a position of a railroad vehicle and a detection range where information about an obstacle present in a traveling direction of the railroad vehicle is to be detected;

a position acquisition unit configured to acquire a current position of the railroad vehicle;

a detection range acquisition unit configured to acquire the detection range corresponding to the current position and the traveling direction of the railroad vehicle from the branch, based on the current position acquired by the position acquisition unit, the detection range information stored in the storage unit, the branch information stored in the storage unit, and the traveling direction of the railroad vehicle from the branch;

a detector configured to detect information about the obstacle from the detection range acquired by the detection range acquisition unit; and

an output unit configured to output a detection result of the detector, wherein

the detection range includes a plurality of detection ranges,

the detector detects the information about the obstacle from each of the detection ranges, and

the output unit outputs the detection result in a form capable of identifying which of the detection ranges is obtained as a target.

2. The driving assistance apparatus according to claim 1, wherein the position acquisition unit acquires the current position as an absolute position represented by latitude and longitude or as a travel distance of the railroad vehicle.

3. The driving assistance apparatus according to claim 1 or 2, wherein the output unit outputs, as the detection result, presence or absence of the obstacle and a distance to the obstacle.

4. The driving assistance apparatus according to any one of claims 1 to 3, wherein the output unit changes an output form of the detection result in accordance with a predetermined criterion.

5. The driving assistance apparatus according to any one of claims 1 to 4, wherein
the storage unit further stores a history of the detection result, and
the output unit changes an output form of the detection result in accordance with frequency of occurrence of the obstacle specified based on the history.

6. The driving assistance apparatus according to any one of claims 1 to 5, wherein the detector detects the information about the obstacle from a region corresponding to the detection range in a captured image obtained by a camera provided to the railroad vehicle, the camera being provided such that a region in the traveling direction of the railroad vehicle is captured.

7. The driving assistance apparatus according to claim 6, wherein the output unit outputs the detection result by superimposing the detection result onto the captured image.

8. The driving assistance apparatus according to any one of claims 1 to 7, further comprising an input unit configured to receive an operation input of a user and change the detection range information in accordance with the received operation input.