CLAIMS

1. An information display system comprising:

at least one sensor that detects objects in a target area;

a status determination unit that acquires a distribution status based on a detection result of a position of an object to be avoided in the target area;

a route generation unit that generates a scheduled route suitable for an autonomous vehicle to travel based on the detected distribution status;

a floor display device that displays the scheduled route on a floor of the target area; and

a communication network connected between the at least one sensor, the status determination device, the route generation unit, and the floor display device.

2. The information display system according to Claim 1, wherein,

in a case where there are a plurality of autonomous vehicles in the target area, the route generation unit determines whether or not the autonomous vehicles interfere with each other when the autonomous vehicles move along the scheduled route of each autonomous vehicle, and

when the autonomous vehicles interfere with each other, the route generation unit generate a route in which an interference does not occur.

3. The information display system according to Claim 2, wherein,

when the autonomous vehicles interfere with each other, the route generation unit generates a wait time for any autonomous vehicle in which the interference is occurring.

4. The information display system according to Claim 1 or 2, wherein,

in a case where a degree of change in a congestion status is more than a certain level, the route generation unit regenerates the scheduled route so as to avoid congested area.

5. The information display system according to any one of Claims 1 to 4, wherein the route generation unit is configured to notify the autonomous vehicle of the generated scheduled route.

6. The information display system according to any one of Claims 1 to 5, wherein the floor display device is a display device.

7. An information display method comprising:

providing at least one sensor that detects objects in a target area;

providing a communication network connected between the at least one sensor, a status determination device, a route generation unit, and a floor display device;

acquiring, by the status determination unit, a distribution status based on a detection result of a position of an object to be avoided in the target area;

generating, by the route generation unit, a scheduled route on which an autonomous vehicle can travel based on the detected distribution status; and

displaying, by the floor display device, the scheduled route on a floor of the target area.