

ABSTRACT

[Problem] To suppress occurrence of a deadlock by mitigating congestion of traveling vehicles.

[Means to Solve Problem] A plurality of traveling vehicles V and a track R provided in a grid pattern, on which the traveling vehicles V can selectively proceed either in a first direction DR1 or in a second direction DR2, are included. A controller TC determines, when a traveling vehicle V that is to proceed in the first direction DR1 from a predetermined cell toward a destination is present, whether or not to grant the traveling vehicle V occupation permission for a cell C adjacent to the predetermined cell C in the first direction DR1. The traveling vehicle V proceeds in the first direction DR1 if occupation permission for the adjacent cell C has been granted from the controller TC, whereas the traveling vehicle V stops at the predetermined cell C if occupation permission has not been granted. The controller TC assigns to the traveling vehicle V a traveling instruction in which a cell C situated at a plurality of cells ahead of the predetermined cell C in the second direction DR2 is designated as a waypoint to the destination if the traveling vehicle V has not obtained occupation permission for the adjacent cell C and has continuously been in a stop state at the predetermined cell C for a predetermined period of time.