Claims

1. A method for operating automated guided transport vehicles for containers, which are each guided in an automated manner during forwards travel and also during rearwards travel and which comprise a towing vehicle and a trailer having a loading surface for at least one container, wherein the respective transport vehicle comprises a vehicle controller in order to actuate a steering mechanism and a travel drive of the transport vehicle such that the transport vehicle follows a desired route,

wherein the desired route is specified in consideration of a previously determined trajectory of the respective transport vehicle, wherein trajectory is understood to mean a movement path of the respective transport vehicle during a driving manoeuvre, wherein the trajectory and/or the currently specified desired route of at least one other transport vehicle is considered in order to avoid conflicts between the trajectories and/or the desired routes of a plurality of transport vehicles, wherein different trajectories are determined and different desired routes are specified for different transport vehicles,

wherein the specified desired route is compared with actual values of a position and an orientation of the transport vehicle and a deviation of the actual values from the desired route is reduced by correspondingly actuating the steering mechanism and/or the travel drive, wherein the position and alignment of the transport vehicle are determined in consideration of the articulation angle between the towing vehicle and the trailer and a steering angle is adjusted, by means of the steering mechanism, in dependence upon an actual value of an articulation angle between the towing vehicle and the trailer.

2. A method as claimed in claim 1, wherein the trajectory is considered in consideration of the kinematic boundary conditions of the transport vehicle.

3. A system for operating automated guided transport vehicles for containers, comprising a management system and transport vehicles for containers, which can each be guided in an automated manner during forwards travel and also during rearwards travel and which comprise a towing vehicle and a trailer having a loading surface for at least one container, wherein the respective transport vehicle comprises a vehicle controller in order to actuate, in an automated manner, a steering mechanism and a travel drive of the transport vehicle such that the transport vehicle follows a desired route,

wherein the management system is configured and designed to specify the desired route in consideration of a previously determined trajectory of the respective transport vehicle and to transmit same to the vehicle controller, wherein trajectory is understood to mean a

movement path of the respective transport vehicle during a driving manoeuvre, wherein the trajectory and/or the currently specified desired route of at least one other transport vehicle is considered in order to avoid conflicts between the trajectories and/or the desired routes of a plurality of transport vehicles, wherein different trajectories are determined and different desired routes are specified for different transport vehicles, wherein the system is configured and designed to implement a method as claimed in any one of the preceding claims.

4. A method as claimed in claim 1 or claim 2, wherein the vehicle controller of each transport vehicle is comprised in the towing vehicle of the transport vehicle.

5. A system as claimed in claim 3, wherein the vehicle controller of each transport vehicle is comprised in the towing vehicle of the transport vehicle.

6. A system as claimed in claim 5, wherein the management system and the vehicle controller are configured and designed to implement a method as claimed in any one of the preceding claims.

7. Use of a method as claimed in claim 1 or claim 2 or a system as claimed in claim 3 for a transport vehicle, the loading surface of which is delimited by guide elements for guiding and aligning a container to be placed on the loading surface.