

AUTONOMOUS TRAVELING VEHICLE, DEVICE FOR CONTROLLING
AUTONOMOUS TRAVELING VEHICLE, AND OWN-POSITION ESTIMATING
METHOD FOR AUTONOMOUS TRAVELING VEHICLE

ABSTRACT

An autonomous traveling vehicle (10) performs data alignment processing (S4), priority order setting processing (S6), identification processing (S7), image matching processing (S8), and own-position estimation processing (S9). The data alignment processing (S4) rearranges a plurality of map data (M1) into a prescribed order. The identification processing (S7) identifies, as an identified group, a group (G2) that includes map image data (IM11) that is most similar to image data (IM2) when a prescribed condition is satisfied after the data alignment processing (S4). The priority order setting processing (S6) further rearranges the plurality of map data (M1) rearranged by the data alignment processing (S4), so that the map data (M1) belonging to the identified group is used preferentially in the image matching processing (S8).

Fig. 3