

ABSTRACT OF DISCLOSURE

An autonomous mobile vehicle control system performs operations of: projecting a three-dimensional point cloud data to obtain a two-dimensional point cloud data; analyzing a projection distribution of the two-dimensional point cloud data to locate at least one static background object and at least one dynamic moving object in the field; predicting a static safety trajectory of the autonomous mobile vehicle moving in the field and avoiding collision between the autonomous mobile vehicle and the static background object according to a position coordinate of the least one static background object; tracking the movement of the dynamic moving object in the field in real time, and adjusting the static safety trajectory in real time with reference to the movement of the dynamic moving object to obtain a dynamic safety trajectory for controlling the movement of the autonomous mobile vehicle in the field.

FIG. 1