

SYSTEM AND METHOD OF CONTROLLING OBSTACLE AVOIDANCE OF ROBOT, ROBOT AND STORAGE MEDIUM

ABSTRACT

The disclosure discloses a system and method of controlling obstacle avoidance of a robot, a robot and a storage medium. The method includes: acquiring current positioning data of the robot, and determining whether an obstacle, which is spaced from a current position at a distance shorter than a preset distance, exists in a path from the current position to a target position or not according to the current positioning data and position data of all obstacles in a predetermined moving region; if the obstacle, which is spaced from the current position at the distance shorter than the preset distance, exists, calculating the shortest distance between the robot and the obstacle according to the acquired positioning data, a predetermined 3D model of the robot and a predetermined 3D model of the obstacle; calculating a due movement direction of the current robot according to the acquired positioning data, the calculated shortest distance and the 3D model of the obstacle, and controlling a movement posture of the robot according to the calculated movement direction to avoid the obstacles. The disclosure can effectively control the robot to avoid the obstacle.

Fig. 1