DOCKING SYSTEM AND METHODS FOR AUTONOMOUS VEHICLES

ABSTRACT

Systems, methods, and computer program products are described herein for autonomously docking an autonomous vehicle. Data including (i) an indication that the autonomous vehicle is within a docking location and (ii) an adjustment distance to place the autonomous vehicle within a threshold distance of the docking location is received. An external reference point detection module identifies an external reference point to the autonomous vehicle. A docking module incrementally adjusts a position of the autonomous vehicle in a first axis based on a distance between the autonomous vehicle and the external reference point until either (i) the autonomous vehicle is within the threshold distance of the docking location or (ii) a number of adjustments exceeds an adjustment maximum.

[Figure 2]