

AI INTEGRATED SYSTEM FOR OPTIMIZING WASTE MANAGEMENT BY SELF- GUIDED ROBOT

ABSTRACT

The present disclosure relates to a centralized hub system for improving automatic waste transport and collection using a self-driving robot, which allows for self-driving and efficient collection of waste in densely populated areas, such as apartment complexes and residential neighborhoods, and areas with a floating population by using robots with built-in artificial intelligence software and hardware and self-driving waste collection and driving functions and an integrated management server for monitoring these robots, and which helps to put information together in this process and use it as base data for the efficient operation of future waste policies and the corresponding systems. The centralized hub system for improving automatic waste transport and collection using a self-driving robot comprises self-driving inlet robots, an integrated management server, and a self-driving vehicle robot.

FIG. 1