LITERATURE SURVEY

The “Bluetooth control cleaning robot using Arduino” is the existing model in that they have designed a robot and the robot is controlled using Bluetooth which is present at both transmitter and receiver end. Later they proposed “Smart Vacuum Robot” with progressive technology. S-curve planning is used for efficient working along with sensors to avoid obstacles. This detects the obstacles present using sensors. Arduino and Raspberry Pi is used in this model . S Yatamono proposed a paper on “Development of Intelligent floor cleaning Robot”. They have developed a smart floor cleaning Robot that can clean the place by navigating, sucking the dust and polishing the floor. The robot consists of an omni wheel which is equipped with a vacuum cleaner and floor polishing motor. It is coded in Arduino IDE by using Arduino microcontroller and it is equipped with Bluetooth so that it can work from smart phone connected via Bluetooth . Sabir Hossain et al proposed “Deep Reinforcement Learning-based ROS-Controlled RC Car for Autonomous Path Exploration in the Unknown Environment. In this paper, LiDAR equipped car using the concept of deep learning is discussed. The software used here is ROS and Arduino . R J Ong and K N F Ku Azir proposed “Low-Cost Autonomous Robot Cleaner using Mapping Algorithm based on Internet of Things (IoT)”. Here, sensors are used to detect any obstacle and Arduino is used to control the robot. Mapping is applied so that the robot can clean without any huma intervention once it is switched on .Anbumani V et al proposed a paper “Development of Ingenious Floor Cleaner using ARDUINO”. Here, different modes of cleaning available such as mopping, sweeping or both mopping and sweeping is discussed. For controlling the robot, Bluetooth module is used and other functions are coded in Arduino. This can even clean corners of the floor. Adeel Saleem et al proposed “Design and Implementation of an Intelligent dust cleaner robot for uneven and nonstructural environment”. In this paper, a robot has been designed which stores the plan of the room and makes the working feasible. This can be used for various environments as well. It is a cost-effective system . Md. Farhanul Islam et al have proposed “Designing and Optimization of An Autonomous Vacuum Floor Cleaning Robot”. Here, an economic prototype is designed using Arduino Mega and Raspberry Pi. GPS module is also present which helps the bot to move in the right direction . Anshu Prakash Murdan et al proposed “A smart autonomous floor cleaner with an Android-based controller”. Here, a bot is designed which can be controlled through Android. By using the application, the bot can be turned in the desired direction . Amir Talebi Sheikh Sarmast et al have proposed “Designing a Smart Vacuum Cleaner in Two Modes of Remote and Automatic”. In this paper, vacuum cleaner is implemented which operates automatically or through android application. If the battery percentage is less, a message is sent to the registered mobile number regarding the same. Md. Rawshan Habib et al proposed “Automatic Solar Panel Cleaning System Based on Arduino for Dust Removal”. In this paper, a bot is designed to clean the solar panels using DC Motor which powers the wiper. Water is not used to clean the panels. This system’s efficiency is about 87 to 96 percent.