
Scavenging Efficient Learning Agent in unknown Environment using Artificial Intelligence Techniques

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Nowadays, it is difficult for a sensor to percept in an unknown or uncertain environment. Despite conducting random generate – test strategies it doesn't know how to react and overcome a complex situation. This research paper offers a self-learning robot using reinforcement algorithms like image processing, natural language or custom specified algorithms with the help of trained data set. To overcome problems, we apply the concepts of deep learning. The processes go like in an unknown environment, image processing identifies the environment by known parameters. The stochastic game strategies help with the past decision and potential skills set from the given circumstances. Heuristic algorithm provides feasible solutions these may help to produce faster result comparing to any of the traditional methods. This Work provides best solution for learning robot to act in the unknown environment such as deep sea, mining area etc also in the partially known environment.

Keywords: Learning agent, deep learning, stochastic, sensors, heuristic.

Implementation Of IoT Concept In Fuel Station

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The survey says in a modern city fuel station plays the important role in the transportation. However, in pandemic situation we have suffered lot to find where is the fuel is available and also, we are suffering to lot find the charging station for Electric vehicles. Now, we have an idea to overcome these situations by using ultrasonic sensor, Arduino, esp8266, IOT cloud platform, GPS and database by developing a fuel station application. In our application all the hardware specifications and software are merged together to build a efficient application. The ultrasonic sensor is fixed in fuel storage tank in a fuel station. The Arduino device is connected to ultrasonic sensor which helps to maintain hardware and software devices. Esp8266 chip can transfer the data by WIFI communication or serial communication and it can be stored in IOT platform (Think speak cloud) by Internet. The database is created to connect all the fuel station to indicate the fuel availability in a particular fuel station in a single application. GPS is used to show the nearest fuel station. By developing all these ideas, we can easily find the fuel availability. For upcoming future there will be a fuel scarcity like petrol and diesel. The engine vehicles are changing into electric vehicles. So, this will be useful to find fuel for consumers in a urban areas, highways or any critical situations in future. This application can save the time of a consumers.