Abstract

This project provides better surveillance for our country by using Internet of things. It is a Rover type device which is useful in high risky boundary regions and the lands where human cannot enter. In this project, the motion of the rover and the rotation of the camera can be controlled using internet. Therefore, we can control this device from anywhere in the world. It provides live streaming and more information about that area. Active IR sensor is used for obstacle detection for safe motion of the rover. It also has MQ2 smoke sensor which senses the inflammable gas and the gas presence in the environment. Ultrasonic sensor is used to detect the motion of the objects present in the surroundings. In this project camera can controlled by using pan and tilt servo motors. Land Mines can also be detected by using Land mine detection circuit. IOT is easily supported using Raspberry pi 3 model B. SD card is used for storing the sensed information. This device is used to prevent the human casualty and abnormal hazardous events. It prevents forest fire with help of smoke sensor. This device can also be useful for detecting and surveillance purposes. GPS is used to find the current location of rover in the
map.

References


Index Terms

Computer Science
Communications

Keywords

Raspberry-Pi, IOT, Smoke sensor, Ultrasonic sensor, Active IR sensor, Land Mine detection, pan-tilt camera, GPS.