ABSTRACT

In this project, a new approach for detecting alive humans in destructed environments using a mobile robot is proposed. Human detection in an unmanned area can be done only by an automated system. Alive human body detection system proposed a monitoring system using PIR sensor and camera to record, transmit and analyze conditions of the human body. In order to detect a human body, a robot must be equipped with a specific set of sensors that provide information about the presence of a person in the environment around. This work describes a robot for rescue operations. The proposed system uses a PIR sensor in order to detect the existence of living humans. This approach requires a relatively small number of data to be acquired and processed during the rescue operation. This way, the real-time cost of processing and data transmission is considerably reduced. This system has the potential to achieve high performance in detecting alive humans in devastated environments relatively quickly and cost effectively.