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## Integrated Surveillance System with Mobile Application (Conference Paper)

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### Abstract

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In today's life with the influence and vast usage of Internet of Things (IoT), a surveillance system become an essential needs (no longer a luxury facility) to home residents, buildings and other important premises. This project deals with web-based and mobile app surveillance system using Raspberry Pi and its supporting components i.e., Pi Camera, PIR motion sensor, Ultrasonic sensor, web-based mobile application. This proposed solution can be implemented over the internet using any computer and mobile devices from anywhere and anytime. The use of Raspberry Pi has given the ability to operate and control the motion detectors, distance of the intruders and video cameras for remote sensing and surveillance. The cameras automatically stream live video and the raspberry pi device will send an alert via email and SMS to the facility owners' computer or mobile devices. It is considered as a cost-effective solution, customizable and easy to implement by the home residents outside their home residents in comparison with other commercial surveillance system products such as CCTV, IP Camera, etc. © 2018 IEEE.

### Author keywords

Live video streaming. Motion Detection Pi Camera PIR sensor Raspberry Pi Surveillance System  
Ultrasonic sensor Web-based mobile application

### Indexed keywords

Engineering controlled terms:

Computer hardware description languages Cost effectiveness Internet of things  
Mobile computing Monitoring Motion analysis Network security Remote sensing  
Ultrasonic applications Ultrasonic sensors Video cameras Websites

Engineering uncontrolled terms

Live video streaming Mobile applications Motion detection Pir sensors Raspberry pi  
Surveillance systems

Engineering main heading:

Security systems

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