SUSPICIOUS MOVEMENT DETECTION AND TRACKING BASED ON COLOR HISTOGRAM

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Abstract: Video vigilance systems are becoming increasingly important for crime investigation and the number of cameras installed in public space is increasing. Many cameras installed at fixed positions are required to observe a wide and complex area. Detection of suspicious human behavior is of great practical importance. Due to random nature of human movements, decisive classification of suspicious human movements can be very difficult. Defining an approach to the problem of automatically capture people and detecting unusual or suspicious movements in Closed Circuit TV (CCTV) videos is our primary aim.

Keywords: CCTV-(Closed Circuit TV)

I. INTRODUCTION

Investigation and so the number of surveillance cameras installed in public space is increasing. Many cameras installed at Static positions are required to observe a wide and complex area, so observation of the video pictures by human becomes difficult. So there is a need for automation and dynamism in such surveillance systems. In order to allow the different users (operators and administrators) to watchdog the system selecting different Quality of Service (QoS) are required depending on the system capacity and to access live and recorded video from different localizations i.e. from their mobile devices. More concretely, in Internet Protocol (IP) surveillance systems some resources involved are limited or expensive. So a technology using automatic detection of intruders (using image processing systems) and automatic alert systems will provide competitive advantage for surveillance systems.

Advances in programming prototype have allowed increasing the dynamism and flexibility of distributed environments. Specially, Service-Oriented approaches provide means of developing decoupled applications in heterogeneous networks by defining the concept of service.

II. PROPOSED SYSTEM

In the Proposed system, the motion object is identified using the image Cauchy distribution model method. The previous snap is compared with the current snap photo. From that the moving object is identified. Here we can detect the exact image of the moving object. Supervising home appliances remotely with mobile applications have started becoming quite popular due to the expanding rise in use of mobile devices.

Another advantage of this system is when the threshold value is attain the limit that time server detected as a motion. Then the system will alert the user automatically by sending a GCM notification to user’s mobile application. User will be using Android Mobile for the Retrieval of Images from the distant place to know whether those images are important and can be ignored.
2.1 Advantages
High accuracy in image capturing. Send an SMS notification to user’s mobile whenever a Moving object is detected. Image can be stored in the server and can be sight at the time of moving object detection. User can view the image, via his Android mobile itself.

III. EXISTING SYSTEM
The Existing technique is a switch is attached to the door which detects any intrusion attempted by intruders. Image is can be stored in the server and it can be fetch after some time. The interrupts GSM modem and the modem sends a configured warning SMS to the mobile phone in the remote location. Moreover there is no alert system to inform the admin when unknown motion object is detected. If the user acknowledges the pop-up, immediately a message is send back to the remote modem.
3.1 Disadvantages
There is no verity in the captured image. The moving object cannot be detected correctly. SMS alert about the motion detection to the user. Image cannot be fetched at the time of motion detection.

IV. FUTURE WORK
Though this project has many added advantage, in future we like to upgrade this into the next level that is not only by just viewing the captured image, we can also view the entire clip of what happened and what has been captured. All this will be done just at the spontaneous moment, within seconds of the action been happened at the site.

V. CONCLUSION
This project introduced an approach for a potent video surveillance in the current system; this overcomes the traditional Surveying where Human mediation is needed and has to watch keenly for keeping track of the entire system. But now with this project we have introduced a unique method which is a Major advantage to the old system.

This project also has a unique feature in which it sends GCM alert at once there is any sort of variation in the captured pixel. Also we are in decided to dedicate this project to many important Surveillance Areas so that Many Unwanted things can be prevented

REFERENCES: