

# **VIDEO SURVEILLANCE USING MOTION DETECTION**

(Project sponsored by KSCST)

## **A PROJECT REPORT**

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# **ABSTRACT**

The need for security has been growing tremendously. Hence, it is imperative for one to be able to safeguard one's property from worldly harms such as thefts, destruction of property, people with malicious intent etc. Due to the advent of technology in the modern world, the methodologies used by thieves and robbers for stealing have been improving exponentially. Therefore, it is necessary for the surveillance techniques to also improve with the changing world. With the improvement in mass media and various forms of communication, it is now possible to monitor and control the environment to the advantage of the owners of the property. The latest technologies used in the fight against thefts and destruction are the video surveillance and monitoring. By using the technologies, it is possible to monitor and capture every inch and second of the area in interest. However, so far the technologies used are passive in nature, i.e., the monitoring systems only help in detecting the crime but do not actively participate in stopping or curbing the crime while it takes place. Therefore, we have developed a methodology to detect the motion in a video stream environment and this is an idea to ensure that the monitoring systems not only actively participate in stopping the crime, but do so while the crime is taking place.

The approach used here is to detect moving objects and to compare the current frame with the previous frame or what we call it as a background. The system will send immediate email notification along with a photo directly to your mailbox as soon as motion or noise intrusion is detected. It will also send a SMS to the user, make a phone call to his number and internal alert alarm will be sound.