

SMART SECURITY: NEW INNOVATION IN THE DOMAIN OF SECURITY

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Abstract

CCTV and Detectors (metal/bomb/any suspicious) are there with us but still criminal/terrorist come and do havoc and go. Our CCTV and Detectors are used after crime has taken place. It is old system for making a system which helps in investigating any crime case, now in such a live and fast going technology world we should make the system which prevents the crime rather than just being used for investigation purpose. So for this, we should make a system which works and detects the suspicious person prior to any crime has occurred i.e. we can make a system which detects the suspicious object with long range_[7] of capacity as well as click a photo image of that area or with whom that suspicious object is present. The main concept is to make a system which click a photo image of that area or with whom that suspicious object is present and send it to a nearest police station/crime branch /any other body working with such cases. By using such system we can prevent crimes before it is taken place. The system can be made by integrating function of CCTV and Detector (any Detector for e.g. Bomb/metal so on) and make them work properly as it is require to prevent the crimes .

Keywords: suspicious person or object, integrated system, CCTV, Detector.

1. INTRODUCTION

For security purpose in all industry CCTV and Detectors (metal/bomb/any suspicious) are used but still in some or the other way security is compromised and crimes occurs for e.g. suppose in a hotel there is all over CCTV and also Detectors are used to detects the suspicious things still some times criminals breaches these all and get into hotel and succeed in their plan. It may be because of some of staffs from hotel are incorporating to criminals to get into the hotel. **For Example Taj Hotel Attack in 26/11.** The goal of this project title is to catch these criminals even though they are helped by some of internal staff of hotel. This is possible only if we integrate the CCTV and Detector together and make a system which will identify the person carrying any suspicious object by using detector with long range of capacity and immediately after detecting it will click a photo of that person and through some triggers this clicked image with some message will be sent to Hotel Manager and also to nearest police station / anybody working with such cases. This Smart_Security can be used in any areas where CCTV AND DETECTORS are used. For Example: Railway Station. On railway station normally a CCTV is installed for the purpose of security but unfortunately that is also used after any crime took place for investigation. In such case the Smart_Security is well suited to prevent the crimes or attack to take place.

2. CURRENT SYSTEM

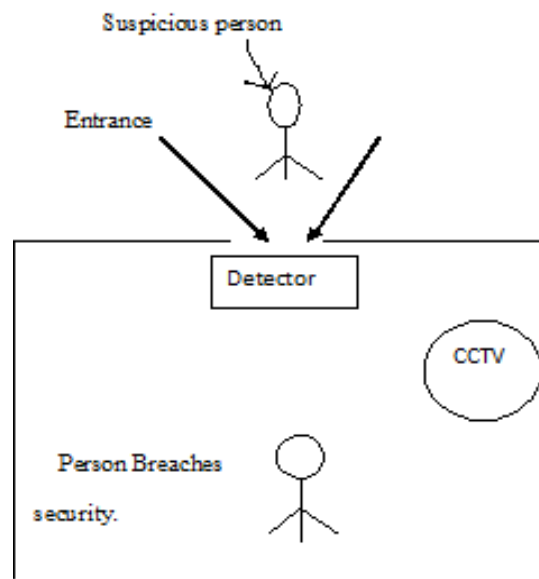


Fig. 1 Current System

In above fig. 1, A suspicious person can enter into hotel if some security staff of the hotel is helping out to that person. This is a core free hand drawing to explain the current system using Hotel as an example. In current system due to weakness of the system the criminal/attacker enters into system in spite of having too much security. This is just because some or the other way our current system of security is weak that's why the crime takes place and our system are only used for probe.



Fig. 2 Pictorial Representation of Current System [2]

In fig 3, we can see the system which is used currently i.e. **CCTV** and **Detector** (metal/ bomb/any suspicious) **functioning** separately. In this system security can be compromised if security person is helping out. In this System there is overhead of minimum two person. With this system separate security person is required to keep watch on the incoming person /objects. In this system the security can be compromised due to weakness of the current system.

Disadvantage of Current System

- 1) The both CCTV and Detectors works independently.
- 2) The CCTV is used after the crime occurred.
- 3) Constant monitoring of every activity might put the workers ill at ease.
- 4) There is loop hole in the security which can be easily broken out.
- 5) Too many security person is required to monitor the system.
- 6) A CCTV camera can be very useful in attaining evidence of crime, but the technology isn't perfect. The camera might miss details; for example, a concealed weapon which isn't immediately visible on a person might not show up on CCTV footage.

3. PROPOSED SYSTEM

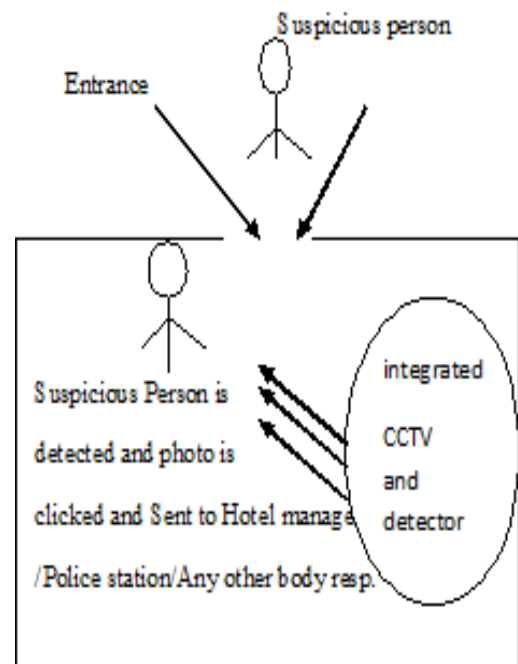


Fig. 3 Proposed System

In above fig. 3, A suspicious person cannot enter into hotel even if some of security staff of hotel is helping that person. It is because of integrated system will find that suspicious person and a photo of that person and location will be sent to hotel manager and police station. This is because the system is able to detect any suspicious object with long range of capacity.

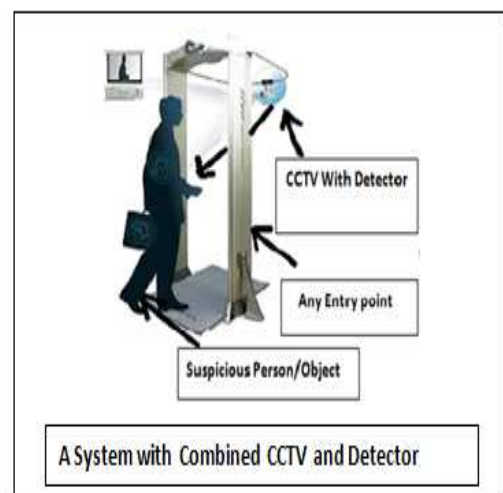


Fig. 4 Pictorial Representation of Proposed System [2]

In fig. 4, A system with integrated CCTV and DETECTOR which is SMART Security which will reduce all the problems of current System. In this system CCTV and DETECTOR work together and perform function for which they are intended. In this System Security can not be compromised even if security person want to help them (suspicious person) out because both the CCTV and DETECTOR are integrated also It does not requires too much security person to keep watch on the system. This system can used in almost all the places Hotel, Bank, Railway Station and so on wherever is required.

Advantages of Proposed System

1. The CCTV and Detector will work as an integrated system.
2. The system can be used to prevent any crimes before it occurred.
3. The CCTV and Detector will work as an integrated system.
4. This system has intelligence power to identify suspicious person and click photo of that person and location and send it to concern authority to prevent from bigger havoc due to crimes.

CONCLUSIONS

Thus by using Smart_Security we can prevent the attack from terrorist by taking the appropriate action.

Example: TAJ HOTEL 26/11, MUMBAI INDIA

If this Smart_Security would had been there in TAJ HOTEL then that situation wouldn't had happened. Because Smart_Security will not compromise any breach in the system. But in the case of CCTV and Detector working separately the security person (at lower level) may compromise security by taking some bribe knowingly or unknowingly.

Smart_security is a system which will send the all information about suspicious object/person to all the authority including lower level to upper level as well as to police. So there in no chance that security can be broken.

Thus by using smart_security we can change the tradition of CCTV and Detector (i.e. in our current system CCTV is used after any crime took place), we will use CCTV and DETECTOR together as an integrated system so that it can be used to prevent the crime to take place.

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