

# A Persist Evaluation in Women Tracking System Based on Current Epoch

S. Karunya, K. Kalaiselvi

**Abstract:** Women are an equal soul of men by comprises men in her name itself but really they are treated equal among men. There is a broad gap in between past and present centuries. Women are treated poorly on past centuries by getting huge works, asking more dowries and even killing female infant but in present century these has been reduced and crimes are increased more in numbers against women like abducted, murdered, raped and harassed in various ways. This assessment is on women's tracking system which helps them in their safety and security. Although there are n numbers of tracking devices still crimes against women are in an increasing rate. These crimes have to be reduced in an effective ways of implementing versatile tracking system by combining various technologies into a single integrated unit.

**Keyword:** Audio and Image, GPS, GPRS, GSM, Sensors.

## I. INTRODUCTION

Women tracking system are becoming essential now a day's. Women are facing major problem day to day on sexual harassment, getting murdered after rape, other crucial crimes. These crimes are named n numbers torture on calls and other propagate comes under different paths of crime. India is in increasing ladder of crime against women. These problems have to be controlled through tracking systems. This evaluation helps to review more tracking system in current epoch and how the works are progressed.

Tracking systems are converted as devices, these devices helps in tracking women by getting location values and monitoring using location maps through satellite and alerts the other side person by communication through sms and providing missed calls. These communications helps to inform about the current happening in the front end of the victim to the receiver end like parents or local police station numbers. Various other technologies are also integrated to function well while monitoring the suspect or offender.

## II. RELATED WORK

As per the work of Ashwini[1], a small device has been designed and processed for implementation to built the proper security level for women using shock technique with various other techniques like GPS, GSM & GPRS to track women and require them from the offender by the receiver or by themselves by shocking mechanism. Maximize self confidence in women on rescuing themselves with advance methods.

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Fig.1. Shock Technique

According to MadhuBala[2], bus tracking system is initiated with prominent arrival time prediction with inbuilt GPS, that captures arrival time of the bus and send the same through SMS with arrival time and minutes of the bus with prominent effects of tracking any person in travelling may be women or children from wherever they put up with bus travel with the help of map and GSM to pass on message to the person and other person related to family like parents or guardian.



Fig.2. Arrival Time with Minutes

Work of PritiJadhav[3], this system tracks student in an regular basis, captures the location and send alert to the parents, teacher and principal of the school or college, if the students crosses the location values.



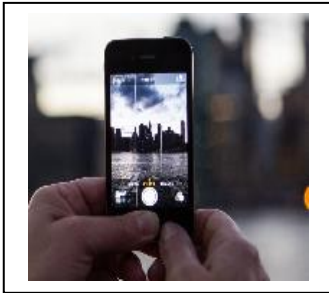
Fig.3. Location Values

As per Trupti[4], children tracking system used to track children from home to school and till they return back home using voice board, GPS & GSM. Voice will be recorded and



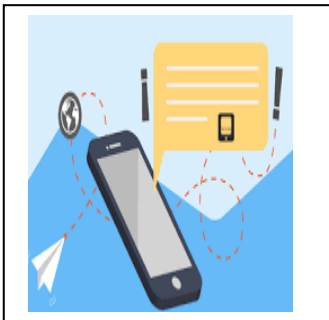
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sent to the receiver end person. According to KarunyaSundaraganapathy[5], this tracking system includes multi-purpose tracking includes three types of input and provides display to the receiver end by monitoring location, recording of voice and image capturing.



**Fig.4.Image Capturing**

Work of D. G. Monisha[6], tracks women through application by monitoring the hidden camera while in trail room, tracking location and informing to their parents through SOS messages and click panic button while they are under risk. This survey of K. Kalaiselvi[7] includes various tracking system and their roles on detecting women and children in this current environment. Tracking system of S. Karunya[8], covers the basic tracking system with the help of GPS, GSM and a panic button in anklet technology by integrating systems with various new inbuilt model.



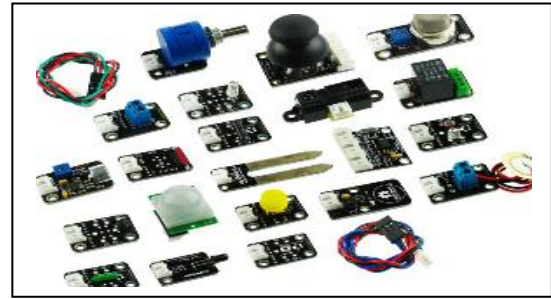
**Fig.5.Message Alert**

As per the work of GeethaPratyushaMiriayala[9], include two technology one id wrist band and other one is spectacles which helps in capturing location and sending alerts, taking images and video from spectacles and sending it to the server.



**Fig.6.Missed Call Alert**

According to the work of A.Berthibella[10], prevent the vehicle from theftthrough the controls of GPS and GSM with the help of temperature sensor which provides control on car getting more speed. As per HazzaAlshamisi[11], helps to track vehicle using speed monitoring sensor and pretends the control on driving fast using sensor.



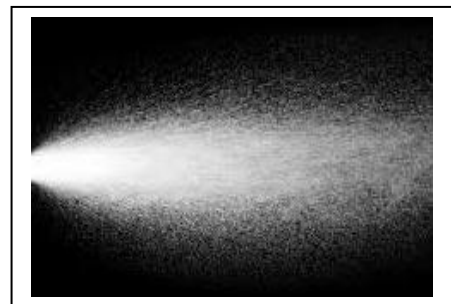
**Fig.7.Sensors**

Work of Roshni S. Sune[12],states the different usage of spray mechanism and shock mechanism by self defense to the offender which in turn help of the hour to manage the situation of kidnapping and harassment and after that buzzer will be checked. Once the buzzer got checked information on location and risk will be send to the parent's mobile number. This system of SriranjiniR[13],provides a different approach on tracking women by dual band and panic button. Once the panic button is checked the message will be send to the police station and other numbers entered in default mechanism. Rechargeable batteries are also provided not to break the usage of dual band.



**Fig.8.Buzzer/ Panic button**

Tracking system of B.Umadevi[14], helps to track the three different sensors output especially temperature sensor, motion sensor and pulse rate sensor at the time of risk alert automatically sends to the receiver person by getting updates from the health condition.



**Fig.9. Spray Technology**

As per the work ofStephen raj S[15], Accident prevention system has been inserted in car, once the driver started to feel asleep the alarm will beat and immediately a message and missed call is passed to the driver.

By using this various alerts, the driver and passenger in the



car is safeguarded from getting accident.



Fig.10. Sleeping Driver Alert

### III. PROPOSED WORK

Tracking system majorly concentrates on detecting location values, marking up of longitude and latitude, sending messages, giving missed calls, providing video live, taking image of offender, and providing the images, video, audio to the receiver who tracks the front end person like parents, police men and guardians. In these tracking system flaws are also enclave. These flaws should be decreased to protect women from such happenings. Thus existing works have various drawbacks/ flaws in executing the tracking systems or devices.

Following drawbacks have evaluated:

- Lacking in network while crossing rural areas
- Lacking in monitoring online while less prominent coverage
- Lacking in voice recognition by clarity
- No face recognition towards offender or kidnapper
- Accuracy lacking in location values

These drawbacks have to be rectified using latest technologies inbuilt in hidden part of the body or the device should be a hidden while carrying to decrease the women murder or getting raped.

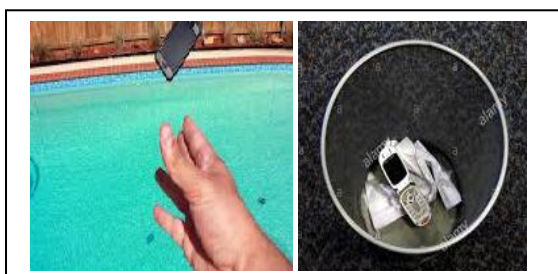
Evaluation provide the lacking information on tracking system which is majorly on the part of system conversion to device, tracking the location from urban to rural and lack in face detection and voice detection.

### IV. RESULTS AND DISCUSSION

From 2000s till now n numbers of works on tracking systems and devices had been initiated. Different system failure are discussed here to make the advancement of review from older technology to latest and modernized version change

#### A. Applications

Once a woman had kidnapped the mobile phone of her has been switch off and thrown. In this scenario how she will be tracked by using applications. More police tracking are done only their applications. Result of this application would end up in 1:10 possible tracking ratio only 1% this tracking will succeed.



### Fig.11. Mobile thrown once kidnapped

#### B. Devices

More devices are purchased through online or by direct market for tracking purpose, in this situation offender would also be aware of that particular product which has been advertise in market or through online. For example tracking watch, locket, pocket finder and other types of tracking devices are seen in daily online advertisement and in market. So once the woman had kidnapped the offender would immediately remove these types of tracking system from the victim. Purpose doesn't met criteria called success.



Fig.12. Devices thrown after kidnapping

#### C. Sensors

Dissimilarities in sensors, value mismatch and lack of communication gap in passing the alerts and grabbing the result from the tracking. Sensors are the most efficient one for tracking but the sensor in current era are consuming more power and the result are not acceptable once in the time of panic. It will detect radiation which is harmful to human and detect target metric distance. Lacking in battery power is a big disadvantage of sensors.

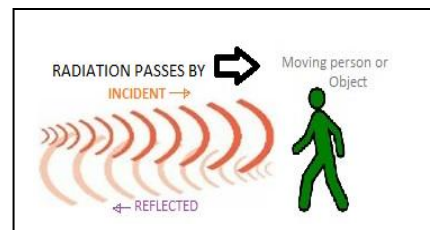


Fig.13. Sensors – Radiation

#### D. Successive system / Device

Success will occur only on discovering a device with hidden kinder or unknown to the offender. This modification would save women from various happening. Modularity would make them move independent wherever and whatever the time it has been that doesn't a point. Aristocratic device inserted with inbuilt technique. Microchip mini with nano techno is used.



Fig.14. Hidden Surface of device





## V. CONCLUSION

This evaluation states that more tracking system now a day's have various flaws, these flaws are the barrier for women to escape from the offender. To overcome the current situation of women solution would be measured. An efficient measure should be a successive one for tracking devices and systems. This tracking review helps in revealing the drawbacks would be constructed on the criteria of overwhelming those drawbacks. Latest technology of hidden devices or inbuilt devices fix up in the body should be discovered to decrease the violent crime against women. Tracking helps in prominent way for women while enabling these tracking system or devices inbuilt and integrated in women moving from home and returning back.

Day by day technology advancement are made in all over the world to turn the huge eyes towards modernized technology with the six sense by procuring the tracking usual habitation this device would be constructed with nano technique.

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