

## Offline Mobile Tracking & Women Security

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**Abstract**— According to the reports of World Health Organization, NCRB social government organization 35% Women all over the world face a lot of unethical physical harassment publicly places like railway bus stands, foot methods etc. so propose system is useful in such things. Propose system offer mobile security feature that takes an image of anyone World Health Organization inputs a phone's parole incorrectly 3 times or further. Its intent is to help people with stolen phones grab a shot of the criminal, maybe to help phone owner. It works taciturnly. The app uses the front-facing camera to snap a picture of the snoop and email it to you. There are a unit several places like Hospitals, petrol pumps, Universities, corporate offices etc. wherever it's clearly mentioned, "KEEP YOUR MOBILE PHONES SILENT!!" over and over individuals forget to change the mobile to the "Silent Mode" which isn't possible every time like during an important meeting, lectures etc. This application automatically changes user profile as per location. With the help of propose system user can get any contact from his/her mobile, user can start mobile information and track location by sending specific SMS. And point is user can access them from anywhere at any time.

**Key words:** Recognition, Extraction Phase, Osculated Face

### I. INTRODUCTION

Registered user's (receiver) contact number in the form of a text message. It notifies with a message "I'M IN DANGER..." alongside the latitude and meridian of the sender.

Ever suspected somebody of Mobile Technology is the evergreen area since many decades and usage of good phone equipped with GPS navigation have increased speedily to over ninetieth. Recently, everywhere the world, crime against women is increasing at higher rates and it is high time to offer safety network for the women. But the existing systems are not powerful enough to forestall the crime against girls security. This application is activated by long press on golem phone screen when the user (sender) feels insecure. This application communicates the user's current location to the predefined r trying to unlock your phone whereas you're away, but haven't been ready to prove anything? Propose system provide mobile security feature that takes an image of anyone United Nations agency inputs a phone's password incorrectly three times or more. Its intent is to assist people with stolen phones grab a shot of the thief, perhaps to help phone owner. It works silently. The app uses the front-facing camera to snap an image of the snoop and email it to you.

Propose system can alter the device to modify to the 'Silent Mode' in locations like workplace, etc. as per be spoken by the user. The user can simply enter the specified coordinates of the locations alongside the specified radius dimensions that he desires to be within the silent zone. The stored data will be compared via the GPS and the profile will be changed accordingly. The application can use GPS Service provided by GPS Satellites for finding locations. In profile

shift operation application really switch the ringer mode of profile. Here user can choose among Silent or Vibrate solely ringer mode for shift purpose.

With the help of propose system user can get any contact from his/her mobile, user will begin mobile information and track location by sending specific SMS. Plus point is user can access them from anywhere at any time. Mobile tracking is done with fused location API

### A. Problem Ingredients

- Women are physically weak than men.
- Ever suspected someone of trying to unlock your phone while you're away, but haven't been ready to prove something.
- If user doesn't have his/her phone and wants important contact.
- If user wants to track his/her mobile however don't have net.
- To solve all above problems we need effective system.

### B. Goals & Objectives

- 1) The application would supply the flexibleness to divide interested geo-graphical house into all totally different sub zones and supported breaching of those zones a distinct alert message would be sent to registered users.
- 2) The application would additionally offer the flexibility to automatically send a message to registered users with mobile's current location once user designed interval.
- 3) On geographical boundary breach, the application would warn user in the form of a message with beep so mobile user would also be well informed about risk associated with his/her movement.

### II. LITERATURE REVIEW

- 1) On a Decentralized Active Sensing Strategy using Mobile Sensor Platforms in a Network
  - Author: 43rd IEEE Conference on Decision and Control December 14-17, 2004 Atlantis, Paradise Island, Bahamas

In this paper, we consider the problem of active sensing using mobile nodes as a sensor network to estimate the state of a dynamic target. We propose a gradient-searchbased decentralized algorithm that demonstrates the benefits of distributed sensing. We then examine the task of tracking multiple targets, and address it via a simple extension to our algorithm. Simulation results show that our simple decentralized approach performs quite well and leads to interesting cooperative behavior

- 2) Paper name: Experiments with Underwater Robot Localization and Tracking
  - Author: IEEE International Conference on Robotics and Automation Roma, Italy, 10-14 April 2007.

This paper describes a novel experiment in which two very different methods of underwater robot localization are compared. The first method is based on a geometric approach

in which a mobile node moves within a field of static nodes, and all nodes are capable of estimating the range to their neighbours acoustically. The second method uses visual odometry, from stereo cameras, by integrating scaled optical flow. The fundamental algorithmic principles of each localization technique is described. We also present experimental results comparing acoustic localization with GPS for surface operation, and a comparison of acoustic and visual methods for underwater operation.

3) Paper name: Improving Localization Accuracy Of Android's Fused Location Provider API Using Kalman Filter

– Author: International Conference on Computer Communication and Informatics (ICCCI -2016), Jan. 07 09, 2016, Coimbatore, INDIA

This paper intends to improve the location accuracy of Google's Fused Location Provider API, for android handheld device using Kalman Filter. Since the Fused Location Provider was built for managing the battery and accuracy tradeoff between GPS provider and Network Provider, the estimate is likely to be noisy and the track obtained contains jumps. So by using Kalman filter, the jumps can be devoid, and a smooth track can be obtained. A real time experiment is carried out to check the improvements. The results show that the proposed location path is smoother than the path travelled using the conventional Fused Location Provider API.

4) Paper name Cluster Space Specification and Control of Mobile Multi robot Systems

– Author: IEEE/ASME TRANSACTIONS ON MECHATRONICS, VOL. 14, NO. 2, APRIL 2009.

The cluster space state representation of mobile multi robot systems is introduced as a means of enabling enhanced control of mobile multi robot systems. A conceptual framework is proposed for the selection of appropriate cluster space state variables for an n-robot system, the development of formal kinematics that associate the cluster space state variables with robot-specific variables, and the implementation of a cluster space control system architecture. The cluster space approach is then demonstrated for examples of two- and three-robot clusters consisting of differential drive robots operating in a plane. In these examples, we demonstrate cluster space variable selection, review the critical kinematic relationships, and present experimental results that demonstrate the ability of the systems to meet control specifications while allowing a single operator to easily specify and supervise the motion of the clusters.

5) Paper name: Dynamic Control of Mobile Multi robot Systems: The Cluster Space Formulation Author: IEEE Access.

The formation control technique called cluster space control promotes simplified specification and monitoring of the motion of mobile multi robot systems of limited size. Previous paper has established the conceptual foundation of this approach and has experimentally verified and validated its use for various systems implementing kinematic controllers. In this paper, we briefly review the definition of the cluster space framework and introduce a new cluster space dynamic model. This model represents the dynamics of the formation as a whole as a function of the dynamics of the

member robots. Given this model, generalized cluster space forces can be applied to the formation, and a Jacobian transpose controller can be implemented to transform cluster space compensation forces into robot-level forces to be applied to the robots in the formation. Then, a nonlinear model-based partition controller is proposed. This controller cancels out the formation dynamics and effectively decouples the cluster space variables. Computer simulations and experimental results using three autonomous surface vessels and four land rovers show the effectiveness of the approach. Finally, sensitivity to errors in the estimation of cluster model parameters is analyzed.

### III. EXISTING SYSTEM

Presently there are completely different applications which provide different services separately. But there is absence of system that has all features in single application.

### IV. SURVEY OF PROPOSED SYSTEM

Chapter 2 in propose system user can send emergency request to predefine mobile variety by clicking power button multiple times. Additionally propose system capture photo whenever someone enter wrong password more than three times and send this photograph also as location to registered email id. Propose system allow user to set location where mobile change profile as per location, for example profile change to "silent mode" whenever user is in office area. User can get any contact from his mobile in any mobile by causation predefine SMS with secret PIN. User will begin his web on his mobile from anywhere by sending predefine SMS with secret PIN. System allow user to track mobile with or without internet by using fused location API.

#### A. Advantages of Proposed System

User can send emergency SMS to their relative

- User can know WHO try to access his/her mobile
- User profile changes as per location (switch to silent mode in office)
- User can get contact number from his/her mobile without having his/her mobile
- User can start internet without having his/her mobile
- User can track mobile with or without internet

### V. SYSTEM ARCHITECTURE

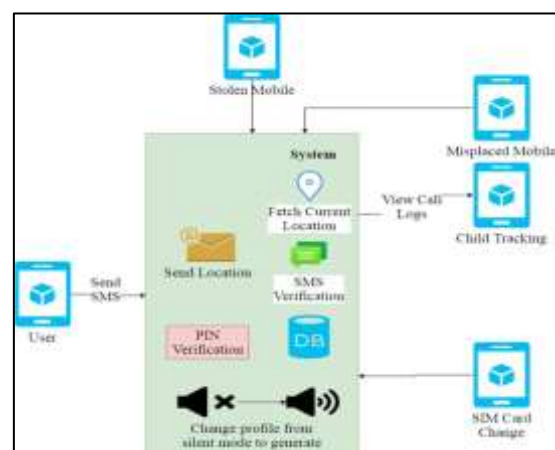


Fig. 1: System Architecture

## VI. CONCLUSION & FUTURE WORK

Propose system enable user to inform relatives in emergency with simple ways and quickly. System is capable to take photo of unauthorized user. System change mobile modes as per location define by user. System allow user to start internet, take contact and track location remotely. Propose system make smart phone more useful. So we conclude that propose system is useful in so many ways and in so many conditions

## VII. FUTURE SCOPE

We can use this application in security as well as safety for people

## REFERENCES

- [1] C. Kitts and M. Egerstedt, "Design, control, and applications of realworldmultirobot systems," *IEEE Robot. Autom. Mag.*, vol. 15, no. 1, p. 8, Mar. 2008.
- [2] J. Cashbaugh and C. Kitts, "Optimizing sensor location in a multisensory single-object tracking system," *Int. J. Distrib. Sensor Netw.*, vol. 11, no. 7, pp. 1–15, Jul. 2015.
- [3] P. Corke et al., "Experiments with underwater robot localization and tracking," in *Proc. IEEE Int. Conf. Robot. Autom.*, Rome, Italy, 2007, pp. 4556–4561.
- [4] S. Wen, Z. Cai, and X. Hu, "Constrained extended kalman filter for target tracking in directional sensor networks," *Int. J. Distrib. Sensor Netw.*, vol. 11, no. 5, pp. 1–13, May 2015.
- [5] R. R. Nair, L. Behera, V. Kumar, and M. Jamshidi, "Multisatellite formation control for remote sensing applications using artificial potential fields and adaptive fuzzy sliding mode control," *IEEE Syst. J.*, vol. 9, no. 2, pp. 508–518, Jun. 2015