

REALTIME PERSON TRACKING

Real time person tracking systems are becoming advanced day by day. Here is a Personal Tracking device that I came across while surfing the web : <https://www.orbcomm.com/africa/industries/personnel-tracking>

This technology enables the tracking upto a 2.5m accuracy and also creates virtual location zones with intelligent geo-fencing so that the person should be in the area he/she has to be. We'll be taking an example of an event consisting of various people who will be representing their religions at this event. So every representative of the respective religion has to be at his/her own allotted area. There also tend to be people who are sometimes lost. So we'll equip each one of them with the tracking device. The number of people is determined by the number of active tracking devices. Now each group will be identified with the various tracking devices (i.e tracking devices of various companies). Let's say tracking devices of company A is assigned to all the members of the religion Christianity. Now after that the problem faced by the management team will be the guidance part (How to make the person move to the right place). Nowadays the tracking devices come with the location guidance system as well.

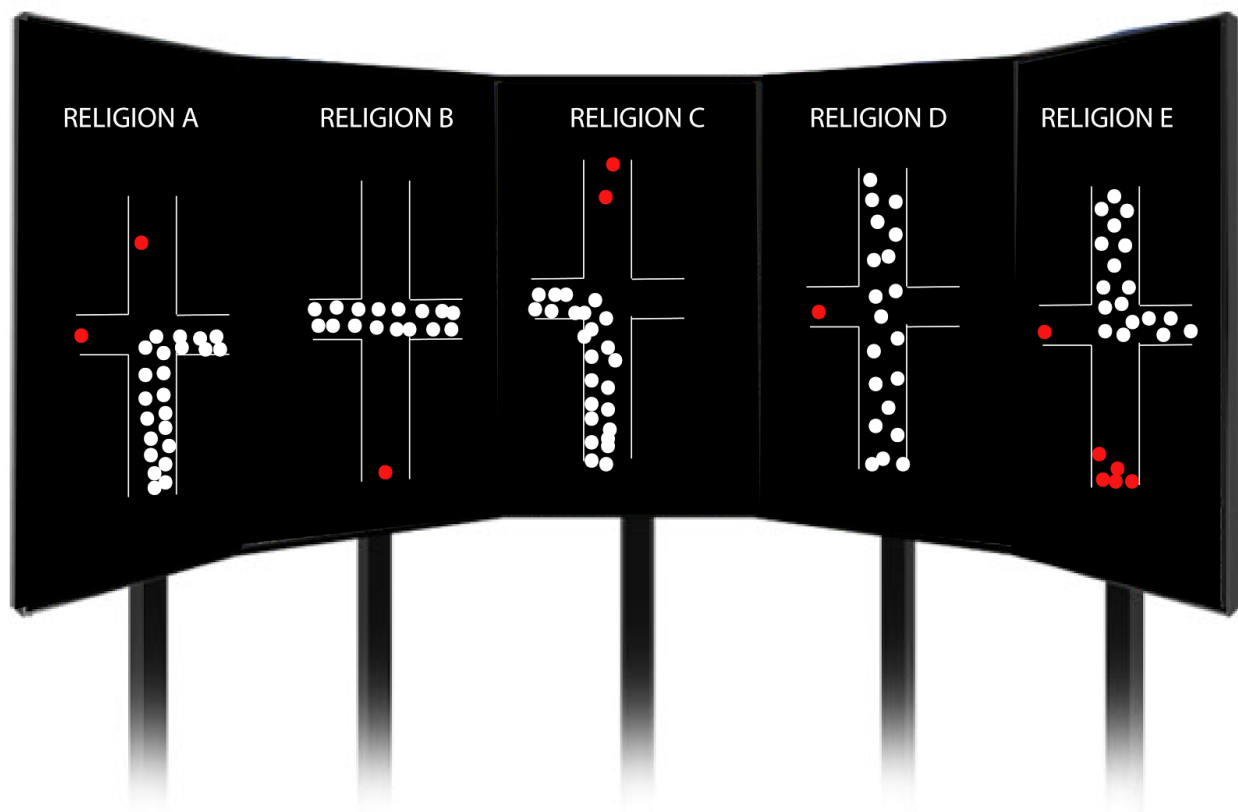
Here is a sample tracking device which will be given to each person :



As seen in the given sample tracking device you can store upto 3 locations and when pressing the buttons the tracking devices will guide the user to desired location along with the direction and the distance to the point of the desired location. Now we'll implement the Liquid Galaxy which will enhance the efficiency of this Real time Tracking System. So here are the use cases for the Liquid Galaxy :

1) Using Liquid Galaxy to display live locations : We'll use Liquid Galaxy to display the live locations of various attendees of the event where each display will be dedicated to each user group whenever a person starts moving in another direction and alert message can be sent to the user's tracking device to help him get to the right location.

Here is an illustration of the proposed use case :



In the above illustration the red dots indicate the users who are lost and are not moving in the right direction whereas the white dots represent the people who are moving in the right direction. (Please note that the directions & routes are just for illustration purposes.)

2) Using Liquid Galaxy to display the correct routes and various timings for events : We'll now implement the Liquid Galaxy to display the correct routes for the groups of people so that they can reach there correct destination and also side by side display the timings for various events. Now helping the people to reach there right destination will easen up the task for controlling the crowd as there will be lesser number of people who are lost and also it might be that a person doesn't have an event at that time so he/she may go back or might wait before entering the crowded area. Here is an illustration showing the setup :

