

An Algorithm for Crowd Detection Using Beacon Bluetooth Technology

Step1:

Four fixed bluetooth receivers should be placed in four different areas in the venue.

Step2:

The bluetooth receiver should be connected to cloud/server through Internet and handled by a mobile application.

Step3:

Each person enter the venue has to wear his own wearable wristband with beacon.

Step4:

The beacon sends its IP address around frequently.

Step5:

The bluetooth receiver frequently check for IP address of beacons and send them to the server.

Step6:

If the server received more than 10 IP address at the same time from one bluetooth receiver, then a signal is sent to tell the visitors “The north region< for example> has become crowded, please keep a safe distance”.

“Flowchart for the Algorithm”

