**Tracking :**

Kalman filter tracking is used to track multiple objects. Each video sequence is tracked separately.





**Training: Cluster centers**

Using the tracked positions, the velocity in x and y directions are found as the distance travelled by the object for each frame.

Below is an example for 2 objects (one standing and the other walking). Velocities in x and y directions are plotted. It can be observed that the two displacement values result in clusters. These cluster centers are computed and are used for testing.





**Testing**



**D(n)-D(s)**

