**pcStream**

pcStream class methods:

**public void** pcS():

This is the pcStream algorithm convert from the python version.

Take the data from Queue<double[]> m\_data.

**private double**[][] margeModels(**double**[][] matrix1):

In the constructor we define maximum models to create, when the pcStream moodelCollectionQueue is in size of maximum models this function is called and marge the newest and the oldest models into one model.

**private double** findMin(**double** [] arr):

Return the minimum value in the array.

**public static** model modelCluster(**double** [][] x):

Create the model. Using PCA calculations.

**public void** saveModel():

When the pcS() function is finish this function is called. The function save the pcSteam object in XML file so we can use it again.

**public double**[] readNext():

Used in the pcS()function before getting the data the function acquire semaphore (when the data queue is empty the thread will go to sleep until addToQueue function is called)

**public synchronized void** addToQueue(**double**[] d):

This function is used to insert data into the data queue in the class release 1 to the semaphore. (in the XposedModuleApp used by TakeAppSample class).