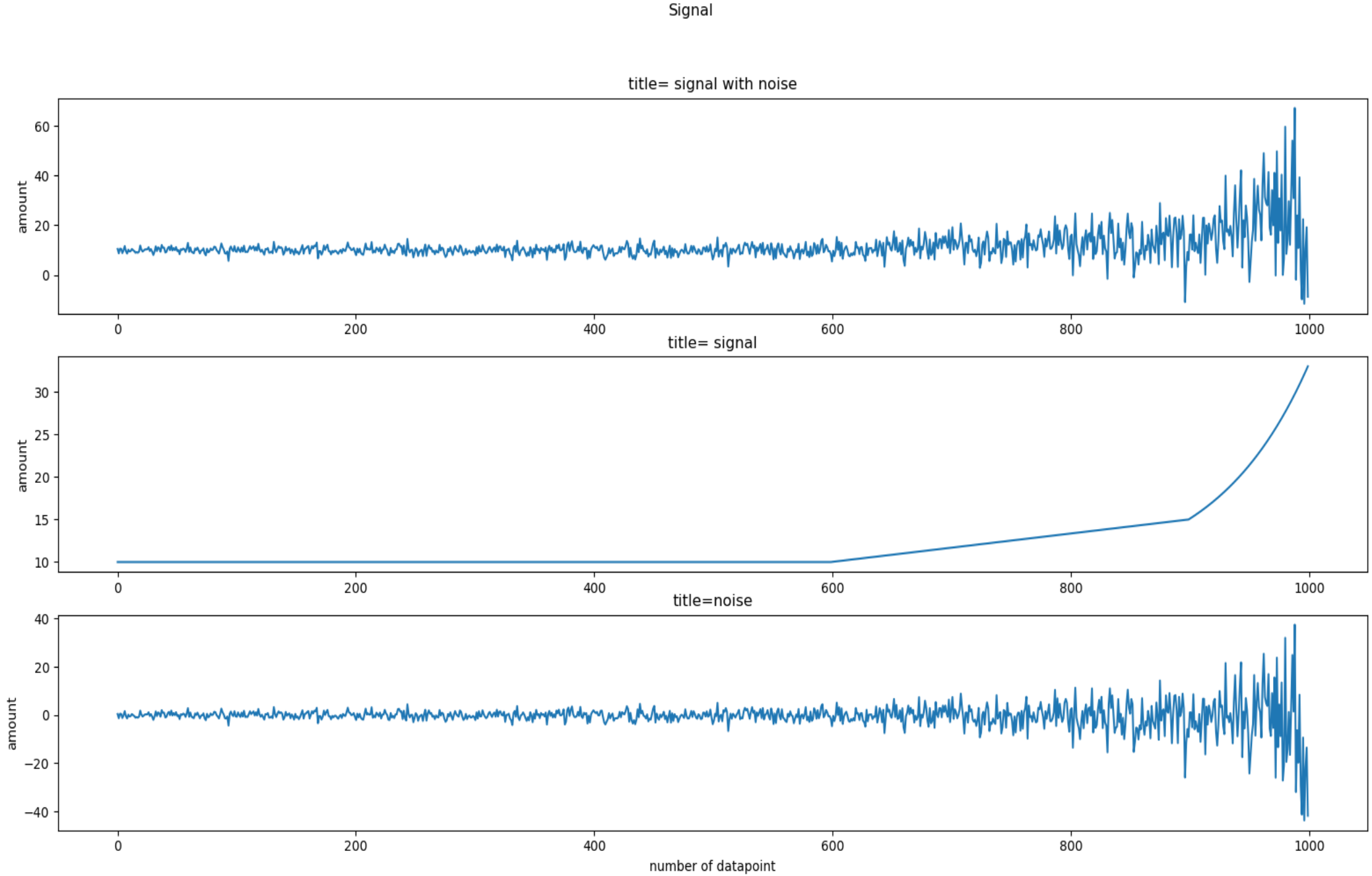
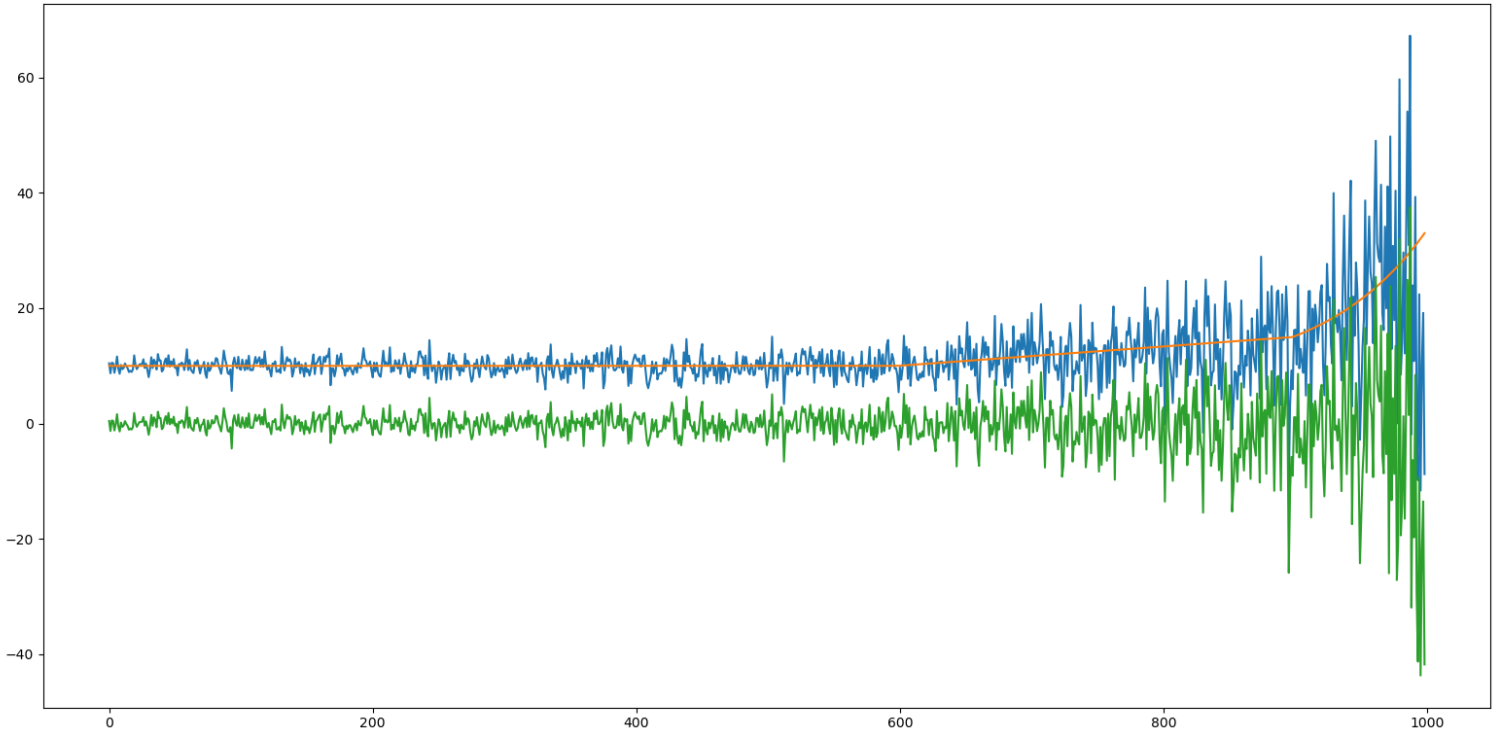
Report 6

New Datasets of Wojtek


Signal
title= signal with noise
amount
60
40
20
0
0
200
400
600
800
1000
title= signal
amount
30
25
20
15
10
0
200
400
600
800
1000
title=noise
amount
40
20
0
−20
−40
0
200
400
600
800
1000
number of datapoint

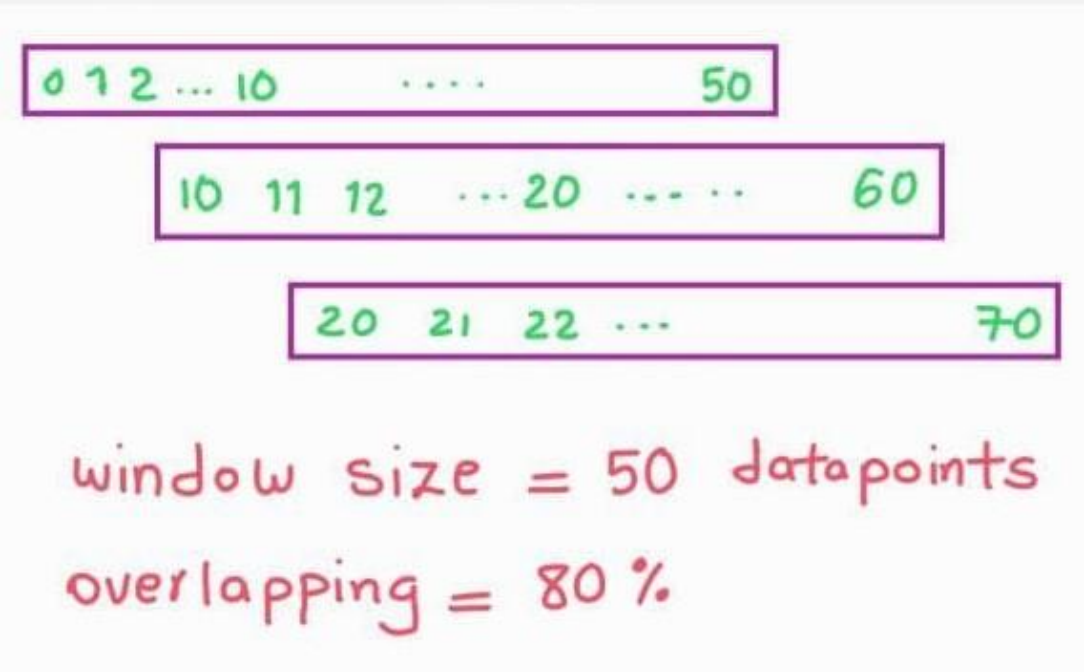
Whole signal in one picture

green : noise
blue: signal + noise
orange : signal



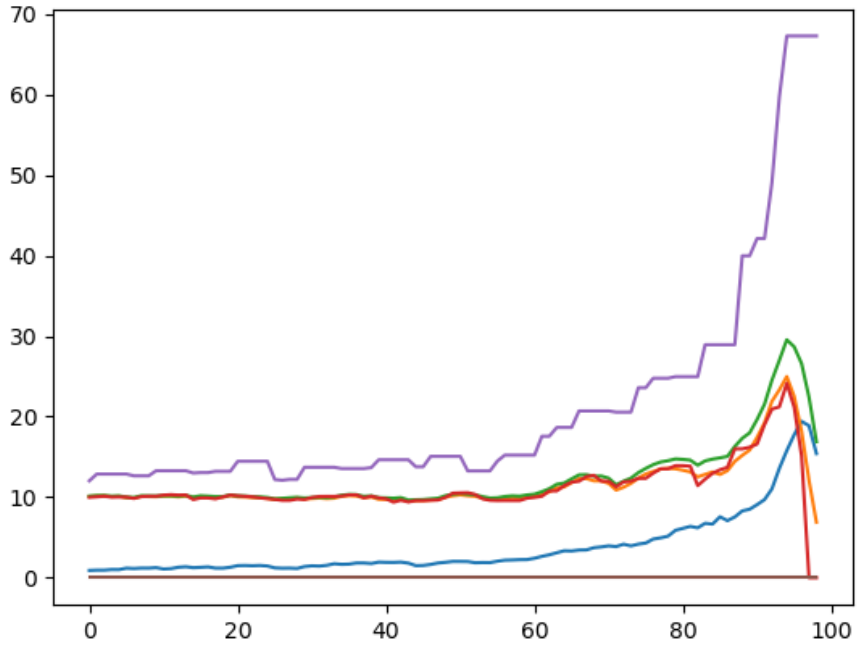
Some details

Window + overlapping



Whole features :

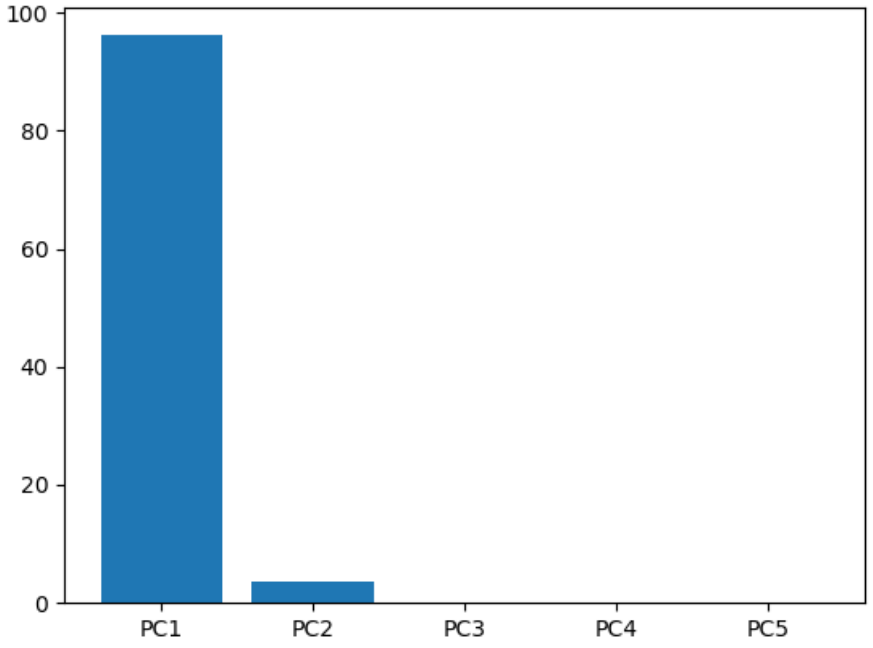
std, mean, rms , median, max



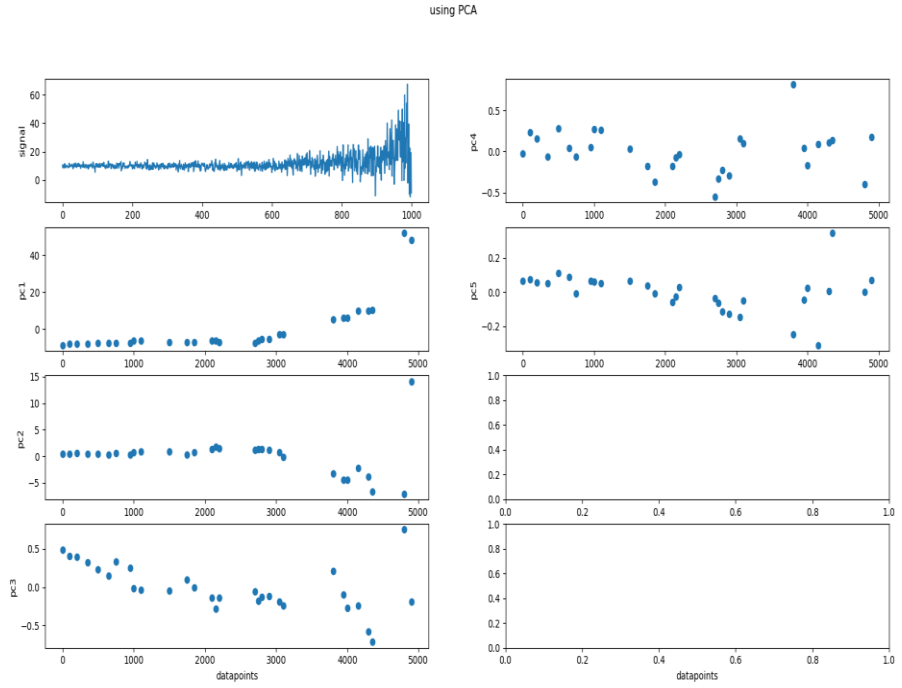
PCA

I choose PC1 for clustering because the percentage is approximately 95%

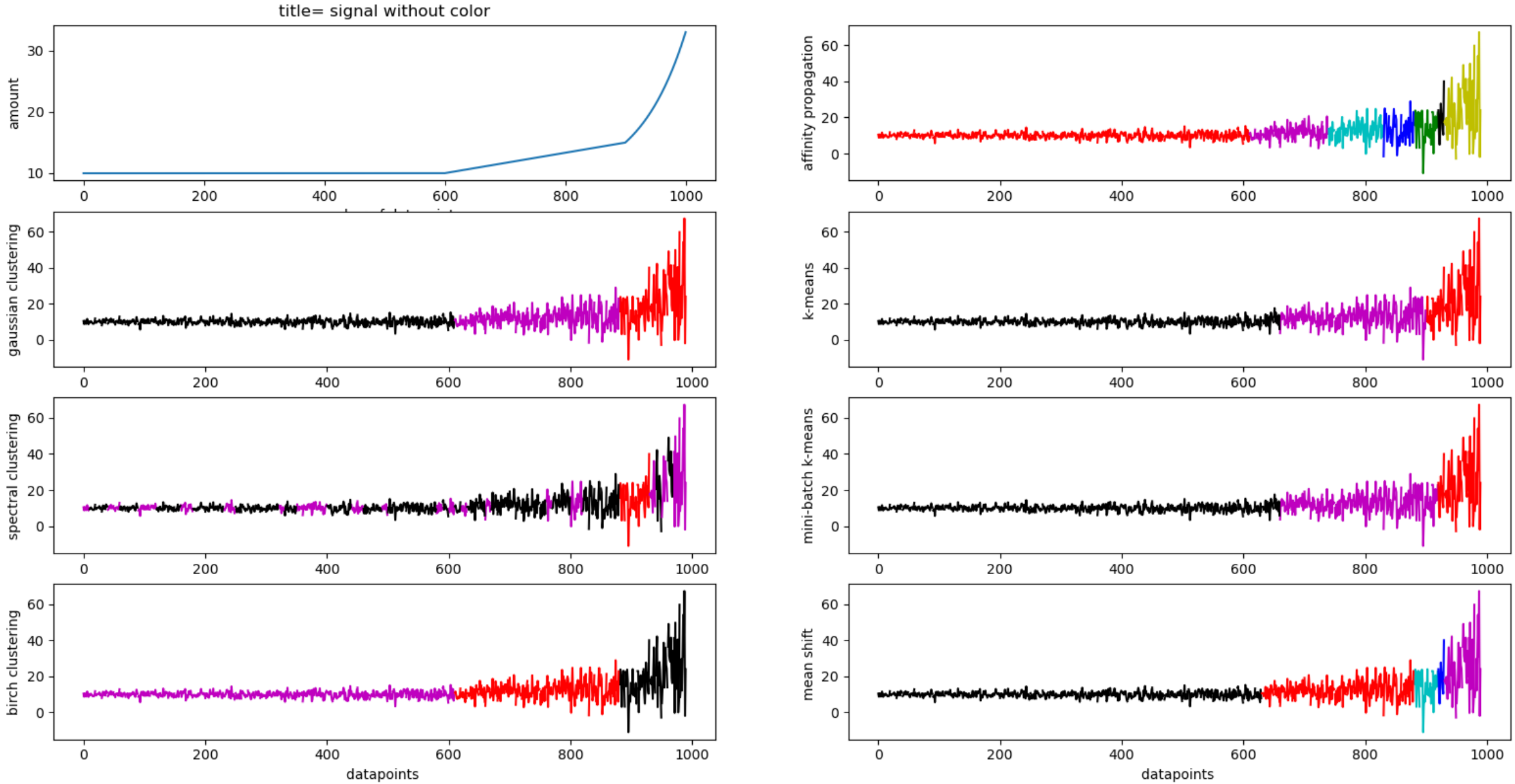
Bar chart

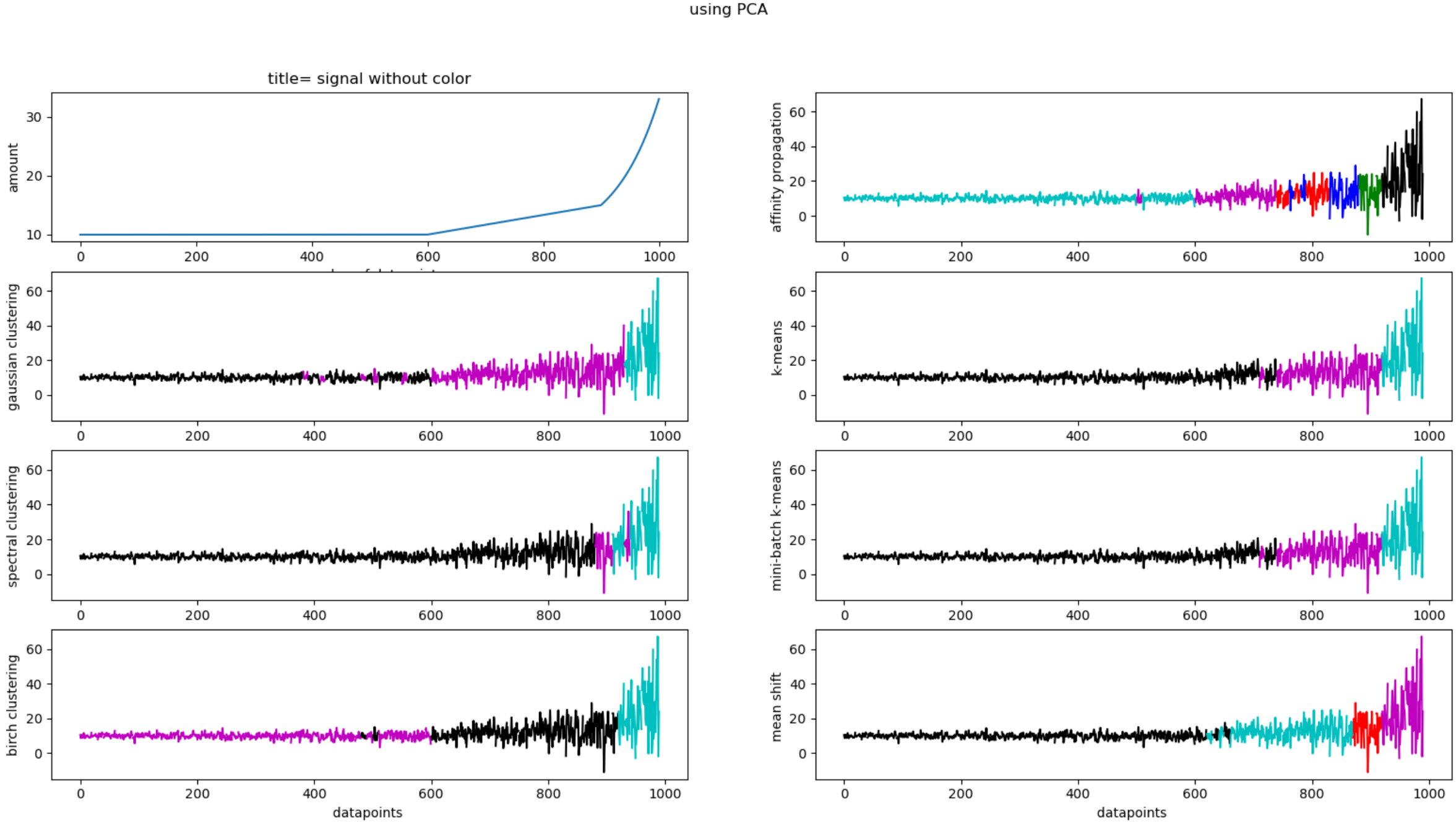


Whole PCA charts



using PCA


title= signal without color
amount
affinity propagation
gaussian clustering
k-means
spectral clustering
mini-batch k-means
birch clustering
mean shift
datapoints
datapoints


using PCA
title= signal without color
amount
affinity propagation
gaussian clustering
k-means
spectral clustering
mini-batch k-means
birch clustering
mean shift
datapoints
datapoints

End