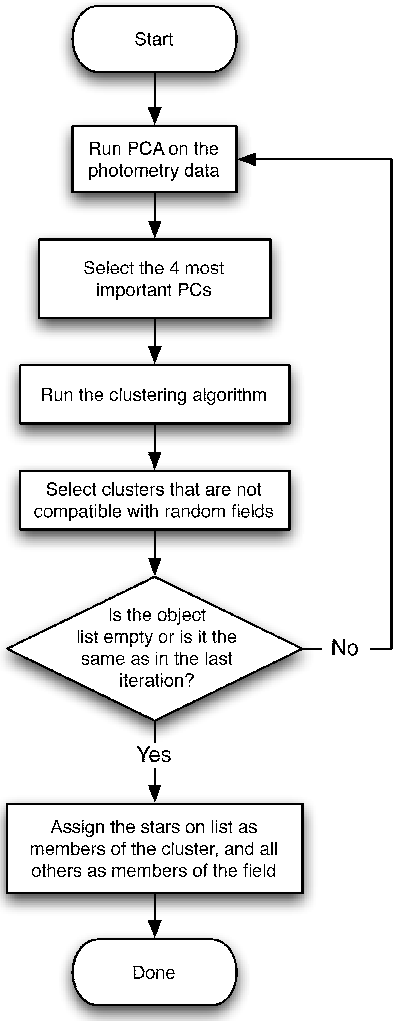
Start
Run PCA on the photometry data
Select the 4 most important PCs
Run the clustering algorithm
Select clusters that are not compatible with random fields
Is the object list empty or is it the same as in the last iteration?
No
Yes
Assign the stars on list as members of the cluster, and all others as members of the field
Done