Ck = number of observation in the kth observation

$$\frac{1}{|C|\epsilon|} \sum_{i,i\in Cle} \frac{P}{j!} \left( \pi_{ij} - \pi_{ij} \right)^{2} = 2 \sum_{i\in Cle} \frac{P}{j!} \left( \pi_{ij} - \pi_{ej} \right)^{2}$$

2.

A [Ckl ] (Mij-Mij) > Squared Enclidean Dis initeación Within cluster variation

Bz Z Z ( n ij - X kj) 2

mean of feature j in cluster Ck

In algorithm Step 2(a), B can be minimized since the centroid is the new mean for each cluster. Therefore if B can be minimized, then, A (squared Enclidean Dis. in each cluster) can be unimized, too.