he index at dota ke index at clusters

You control of the K clusters is assigned to cluster k

the control of the charter k

Since T is a findian of runc and IIII - IIII, I is non-negative. We have to find values of rink and III such that we have to find values of rink and III such that I is minimized. Closed form adultion for each iteration on be obtained by setting either $\frac{\partial J}{\partial r_{RK}} = 0$ or $\frac{\partial J}{\partial M_{K}} = 0$.

YNK = 1 if k = argmin||Xn-He||3

The = Inkkn

The Track

Since closed from solution exists local minima for Jevists of some closed from solution exists or plu converges, the abord parameter will converge and assignment enters a cycle since there are finite number at passible assignments of succession as finite number of passible assignments convergence to examed as J is a mandrationly deconvergence to examed as J is a mandrationly deconfined.

Problem 4.3

$$P(x) = \sum_{k=1}^{\infty} P(\overline{x}|\overline{z}) P(\overline{z})$$

$$= \sum_{k=1}^{\infty} N(\overline{x}|H_{k}, \sum_{k}) \frac{\overline{x}_{k}}{\overline{x}_{k}}$$

$$= \sum_{k=1}^{\infty} (N(x)H_{k}, \sum_{k}) \overline{x}_{k})^{2k}$$

$$P(x) = \sum_{k=1}^{\infty} N(\overline{x}'|H_{k}, \sum_{k}) \overline{x}_{k}$$

Adden 43

PCA is boused on Anding the ontagnal projections of the data sect with highest variance possible. If there is notice and we plat the data. If the data is had linearly correlated (i.e in spiral) pc doesnot work. It always assumes that the data is a Gaussian distribution