Ganssian

$$= \sum_{k=1}^{K} |\langle \mathcal{M}_k, \delta_k^{k} \rangle|^p (c = k)$$

Complete Given samples from P(K), estimate the parameters. Mk.6k

Given samples from P(K), estimate the parameters. Mk.6k

Appear : Maximum likelihood

Type : I.I.D. samples
$$\{X, X, \dots, X_n\}$$

Optivities : log [Milhard P= $\prod_{i=1}^{n} \sum_{k=1}^{n} M(X_i, M_k, G_{ik}) \neq \prod_{i=1}^{n} \log \left(\frac{K}{K_i} M(X_i, M_k, G_{ik})\right)$

Simplex case : [Ke]

 $L = \sum_{i=1}^{n} \log \left(\frac{K}{K_i} M(X_i, M_k, G_{ik})\right)$

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 $L = \sum_{i=1}^{n} \log \left(\frac{K}{K_i} M(X_i, M_k, G_{ik})\right)$

Maximize with $M = \frac{M}{M} \sum_{i=1}^{n} M$
 $M = \frac{M}{M} \sum_{i=1}^{n} M$

General Case:

$$\frac{\partial L}{\partial M_{k}} = 0$$

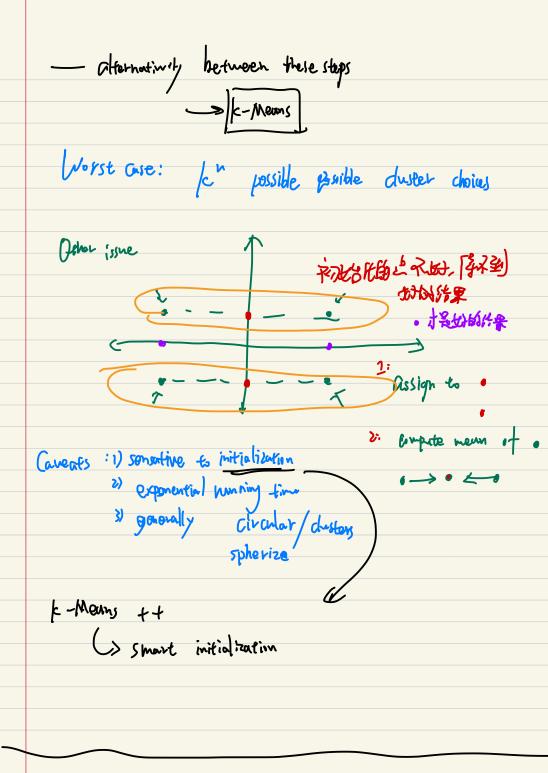
$$\frac{\partial L}{\partial M_{$$

if oracle tells us means Mk, variances f_k^2 , then we can compare Y(k)[Monimization , (M-step) Albanatively leonate - (FM) Once ME, GE one imputed, then Yick) gives P (C=K | X=X;) FM soft - diseasing

FM soft -Orders: SIUSLU---USK = X subsets

Partition of duta

MI, MI, -- MK) __ Cluster Centers Loss function: " K-means objective foundan"



Approaches requires no knowledge of - Hierachical clastering Sivinformatics

Genomics --- linguistics HEWLEN Bayesian methods