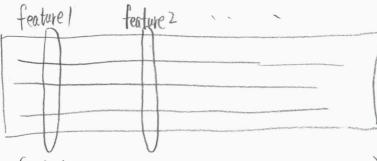


O Score function

Suppose we have a partition T now, T= {t1, t2, ..., tn}

t, (Cluster 1)



$$f(t') \leftarrow (Var)$$

, Varz, ..., Varloz)

$$f(t^2) \in$$

Score for cluster :  $S(t') = f(t')^T \times \Lambda$ 

where  $f(t') \in \mathbb{R}^{102}$ ,  $\Lambda \in \mathbb{R}^{102}$ 

Score for clusterz:  $S(t^2) = f(t^2) \times \Lambda$ 

Score for partition T is  $S(T) = S(t') + S(t^2) + \cdots + S(t^n)$  $= \left[ \sum f(t^i) \right] \times \Lambda$ 

S(T) smaller -> Partition is better

S\*(T) = The accuracy of T

step  $\gamma$   $\Rightarrow$   $S(t_1 \cup t_2) + S(t_3) + \cdots S(t_n)$   $S(t_1) + \cdots + S(t_n)$  is fixed  $S(t_1) + \cdots + S(t_n)$  is fixed.

Problem in our Algorithm

For example, loo clusters at the beginning, we  $\Delta^{\circ}$