



Residual vector

$$(x_n - c_k)$$

N

Summation along N-axis with weight  $a_n$

K

D

Take square and summation along D-axis and take SoftMax operation along K-axis

Weight  $a_n$

K  
k=1  
k=2  
⋮

$$a_n = \frac{e^{-\alpha \|x_n - c_k\|^2}}{\sum_{k'} e^{-\alpha \|x_n - c_{k'}\|^2}}$$

$$V[j, k] = \sum_{n=1}^N \frac{e^{-\alpha \|x_n - c_k\|^2}}{\sum_{k'} e^{-\alpha \|x_n - c_{k'}\|^2}} (x_n[j] - c_k[j])$$