

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu



wtf this great ebook for free?!

#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

$$\begin{aligned}
 \mu_j &= \frac{1}{N_j} \sum_{i \in C_j} x_i \\
 \mu_j^* &= \frac{1}{N_j+1} \left(\sum_{i \in C_j} x_i + \hat{x} \right) \\
 &= \frac{1}{N_j+1} (N_j \mu_j + \hat{x}) \\
 &= \frac{N_j}{N_j+1} \mu_j + \frac{\hat{x}}{N_j+1} \\
 &= \frac{N_j+1}{N_j+1} \mu_j - \frac{\mu_j}{N_j+1} + \frac{\hat{x}}{N_j+1} \\
 &= \mu_j + \frac{(\hat{x} - \mu_j)}{N_j+1}
 \end{aligned}$$

$$\begin{aligned}
 J_j &= \sum_{i \in C_j} |x_i - \mu_j|^2 \\
 J_j^* &= \sum_{i \in C_j} |x_i - \mu_j^*|^2 + |\hat{x} - \mu_j^*|^2 \\
 &= \sum_{i \in C_j} \left| x_i - \mu_j - \frac{\hat{x} - \mu_j}{N_j+1} \right|^2 + \left| \hat{x} - \mu_j - \frac{\hat{x} - \mu_j}{N_j+1} \right|^2 \\
 &= \sum_{i \in C_j} \left| x_i - \mu_j - \frac{\hat{x} - \mu_j}{N_j+1} \right|^2 + \frac{N_j}{N_j+1} (\hat{x} - \mu_j)^2 \\
 &= \sum_{i \in C_j} \left(|x_i - \mu_j|^2 - 2 \frac{(\hat{x} - \mu_j)}{N_j+1} (x_i - \mu_j) + \frac{(\hat{x} - \mu_j)^2}{(N_j+1)^2} \right) + \frac{N_j}{N_j+1} (\hat{x} - \mu_j)^2 \\
 &= \sum_{i \in C_j} (|x_i - \mu_j|^2 - 2 \frac{(\hat{x} - \mu_j)}{N_j+1} (x_i - \mu_j) + \frac{(\hat{x} - \mu_j)^2}{(N_j+1)^2}) \\
 &= \sum_{i \in C_j} (|x_i - \mu_j|^2 - 2 \frac{(\hat{x} - \mu_j)}{N_j+1} (x_i - \mu_j) + \frac{(\hat{x} - \mu_j)^2}{(N_j+1)^2}) \\
 &= \sum_{i \in C_j} (|x_i - \mu_j|^2 - 2 \frac{(\hat{x} - \mu_j)}{N_j+1} (x_i - \mu_j) + \frac{(\hat{x} - \mu_j)^2}{(N_j+1)^2}) \\
 &= \sum_{i \in C_j} (|x_i - \mu_j|^2 - 2 \frac{(\hat{x} - \mu_j)}{N_j+1} (x_i - \mu_j) + \frac{(\hat{x} - \mu_j)^2}{(N_j+1)^2}) \\
 &= 0
 \end{aligned}$$

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