

Rocchio Feedback: Formula

New query

Parameters

$$\vec{q}_m = \alpha \vec{q} + \frac{\beta}{|D_r|} \sum_{\forall \vec{d}_j \in D_r} \vec{d}_j - \frac{\gamma}{|D_n|} \sum_{\forall \vec{d}_j \in D_n} \vec{d}_j$$

Original query

Rel docs

Non-rel docs

The diagram illustrates the Rocchio Feedback formula. At the top, the word 'Parameters' has three arrows pointing to the coefficients α , β , and γ in the formula. On the left, 'New query' has an arrow pointing to \vec{q}_m . Below the formula, 'Original query' has an arrow pointing to \vec{q} . 'Rel docs' has an arrow pointing to the summation term $\sum_{\forall \vec{d}_j \in D_r} \vec{d}_j$. 'Non-rel docs' has an arrow pointing to the summation term $\sum_{\forall \vec{d}_j \in D_n} \vec{d}_j$.