

the posts held rather than the individual.

N_x is the number of recipients of the TransMail x

Importance is again on a scale of numbers, and is put into a function eg $f(I_s)$ which is between 0 and 1.

There are also importance factors involved in cases where the immediate sender s is forwarding mail from a previous sender v , who also has his/her own importance values. We can indicate this by $^g I_{sv}$ or $^k I_{sv}$ to indicate any earlier forwarder(s) of the TransMail.

A summary of a working formula for the relevance, of a given TransMail x is then:

$^x R_k^I$

$$= \frac{\omega}{W_D} \sum_{j=1}^{n_I} w_i {}^x D_j^i + \frac{\nu}{W_C} \sum_{j=1}^{n_I} w_j f({}^x C_j^i) + \frac{\psi}{W_I} \left((w_1 f({}^g I_s) + w_2 f({}^l I_s) + w_3 \sum_{s=1}^{n_K} [w_1 f({}^g I_s / N^k) + w_2 f({}^g I_{lk}^{o m} / N^x)]) \right)$$

$$= \frac{\omega}{W_D} \sum_{i=1}^{n_I} w_i {}^x D_i^i + \frac{\nu}{W_C} \sum_{j=1}^{n_I} w_j f(C_k^m) + \frac{\psi}{W_I} \left((w_1 f(I_g^m) + w_2 f(I_l^m) + w_3 \sum_{k=1}^{n_K} [w_1 f(I_g^m / N^m) + w_2 f(I_{lk}^{o m} / N^m)]) \right)$$

where

n_i n_j and n_k are the number of attributes in each list

w_i and w_j and w_1 and w_2 are weightings associated with each attribute

W_D , W_C etc are the sum of the weightings in each of the three lists

$\omega + \nu + \psi = 1$

Although I'm not sure, I think a small number of inconsistencies have appeared in the formula – and have attempted to rewrite what I think it should be:

$$^x R_k^I = \frac{\omega}{W_D} \sum_{i=1}^{n_I} w_i {}^x D_i^i$$

$$+ \frac{\nu}{W_C} \sum_{j=1}^{n_I} w_j f({}^x C_j^i)$$

$$+ \frac{\psi}{W_I} \left((w_1 f({}^g I_s) + w_2 f({}^k I_s) + w_3 \sum_{v=1}^{n_v} [w_1 f({}^g I_{sv} / N^k) + w_2 f({}^k I_{sv}^{o m} / N^k)]) \right)$$

In The formula D^i and C^i where the i is being used to represent the “incoming” factor.

Most changes are to the importance part of the calculation. From the descriptions, g is used for the global importance value and k for the specific user (as in $^x R_k^I$). I am still uncertain on the last part and where the o or the m has come from and would appreciate if you can confirm and explain what this is for?

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