Need: Informational (Google) navigarosonal (Blackboard), (following a linear parts). transaction (online shop), (maybe some stages). (or sharing materials restrices) Problems: volatile dara: how is fresh the index or the content of the malex. scaling issues. redundency: how to identify it is somilar - (diversity). quality relevant on rank on relevant diversity: rank on spano which morarial is the most important) Evaluation of web south: 1 se generation: tot-idf s. (no way to gustance do preturn sesiles 2nd generation: Google . Link analysis 3rd generation.

17-h Nov 1R-1

Impair factor = directive grown

Cycle free. Sometime can weight the new bur important papers a livede bit Smilar analysis: co-citation another measure of smilarites: co-citation

IR-2

Murually recursive heunstizs used

(authority, hub)

q A A

increase the rank

ap: P1 P3 33

To - P. P3 --

ap = I hag

GS.

score to Constant.

ES.

don't need to recalcular

9, 9,

We warn to retur the ap pp P2 P2 -> eS. to de wer word to de worder of

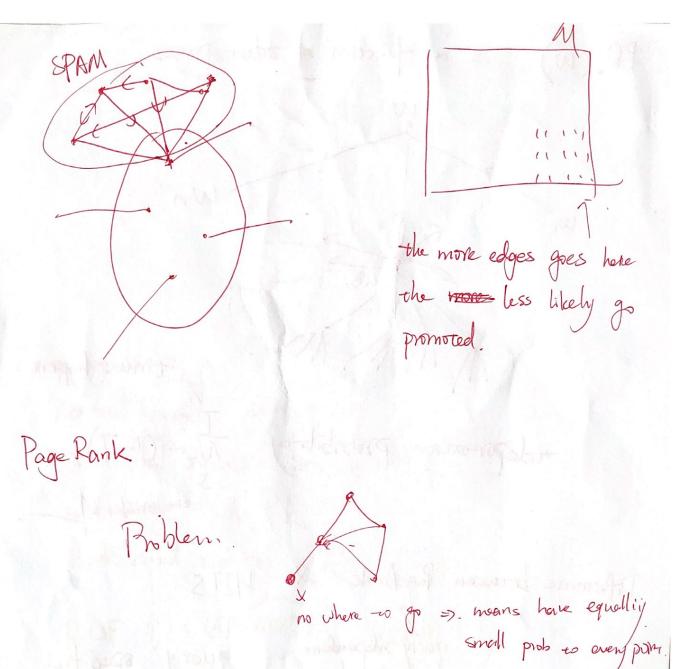
(transpose metrics)

$$\Rightarrow$$
 $\overrightarrow{a_p} = (M^t M) \overrightarrow{a_q}$.

(purely function of moorics).

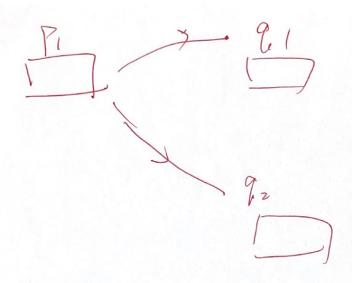
gre the ranking

IR-4



there is analy

PR(W), is a function of other pages. Wz times happen. teleportation probability the number of Différence between RageRank & HITS. query independence. query specific (global. local graph discribure the web. based on wers movests. P. Pz Pz ... Pn /2 /2 /2 /N.



Stm (P1, 21) SM(P, 192)

Kank signals:

contem signals: sim (q, d)

Structural signals: Sonc(q,d).

web usage: RPR.

link based rankman. PR

RLP,9)=(9)(PM75) - (1-9)...

how important have query is

if she guery is hard, we can pure more weather

on BM25 ().