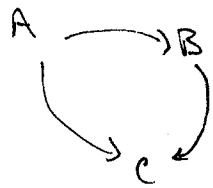


HITS Alg.



Problem: Find the HUB and AUTHORITY scores using the HITS algorithm

Step 1:

$$\text{Initial: } \bar{h}_0 = (1, 1, 1)$$

$$\bar{a}_0 = (1, 1, 1).$$

Step 2:

Update Authority scores.

Sum of hub scores for the pages of the inbound links.

$$\bar{a}_1 = (0, 1, 2).$$

Normalize so the sum is 1

$$\bar{a}_1 = (0, 1/3, 2/3)$$

Step 3

Update Hub Scores.

Sum of authority scores of destination pages for outbound links

$$\bar{h}_1 = (1/3 + 2/3, 2/3, 0)$$

$$= (1, 2/3, 0)$$

Normalize

$$= (1/5/3, 2/3/5/3, 0)$$

$$= (3/5, 2/5, 0)$$

Repeat Steps 2+B until convergence (or until the problem specifies)