

AdaRank: a boosting algorithm for information retrieval

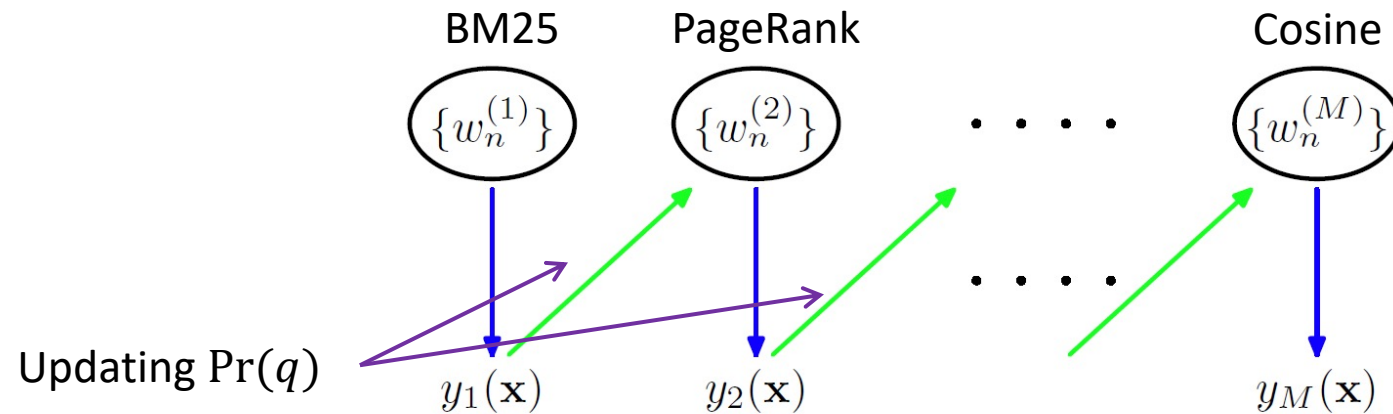
Jun Xu & Hang Li, SIGIR'07

- Loss defined by IR metrics

- $-\sum_{q \in Q} Pr(q) \exp[-O(q)]$

Target metrics: MAP, NDCG, MRR

- Optimizing by boosting



Credibility of each committee member (ranking feature)

$$Y_M(\mathbf{x}) = \text{sign} \left(\sum_m c_m y_m(\mathbf{x}) \right)$$