Condorcet Fusion: an implementation

Improved Retrieval through Rank Fusion

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Introduction



This project implements some ideas coming from a paper by **Aslam** and **Montague**.

These authors applied Social Choice Theory to Rank Fusion.

They claim that their algorithm beats the ones by **Fox** and **Shaw** most of the time.

bgWave 2 of

Starter: basic fusion strategies



Fox and Shaw devised some simple, score-based fusion formulae:

CombMAX

fused score = max(scores)

CombMIN

fused score = min(scores)

CombSUM

fused score = sum(scores)

Starter: basic fusion strategies



Fox and Shaw devised some simple, score-based fusion formulae:

CombMED

fused score = median(scores)

CombANZ

 $fused\ score = \frac{CombSUM}{\#nonZeroScores}$

CombMNZ

 $fused\ score = CombSUM \times \#nonZeroScores$

Are we comparing apples and oranges?

