Round 4 results — Run covidex.r4.d2q.duot5 submitted from covidex

Run Description

A pairwise reranker (duoT5) using top-50 documents from a pointwise reranker (monoT5). Documents were expanded with doc2query prior to indexing. Both rerankers were trained on MedMARCO (MacAvaney et al., SLEDGE, 2020). Initial runs are baselines 7 and 8 from https://github.com/castorini/anserini/blob/master/docs/experiments covid.md#round-4

Summary Statistics	
Run ID	covidex.r4.d2q.duot5
Topic type	automatic
Contributed to judgment sets?	yes

Overall measures	
Number of topics	45
Total number retrieved	40405
Total relevant	5824
Total relevant retrieved	3795
MAP	0.3122
Mean Bpref	0.5589
Mean NDCG@20	0.7219
Mean RBP(p=0.5)	0.8502 +0.0007

Document Level Averages	
	Precision
At 5 docs	0.8622
At 10 docs	0.8178
At 15 docs	0.7689
At 20 docs	0.7267
At 30 docs	0.6319
R-Precision	
Exact	0.3426

Document Counts at Rank 50
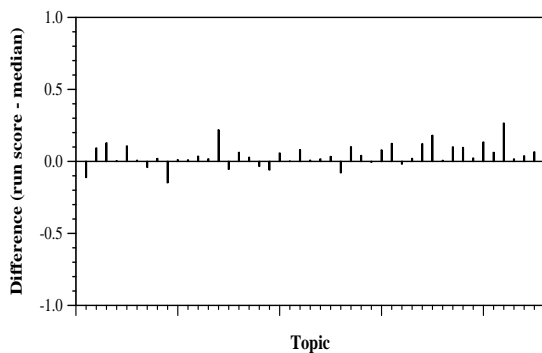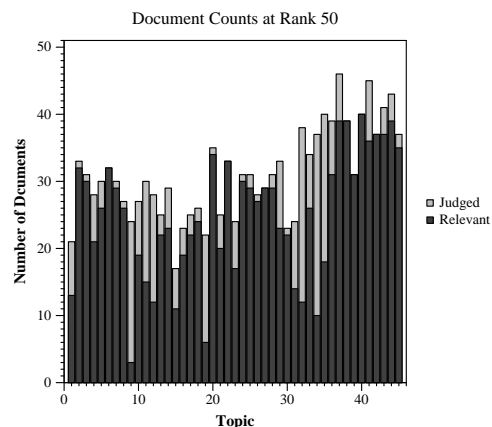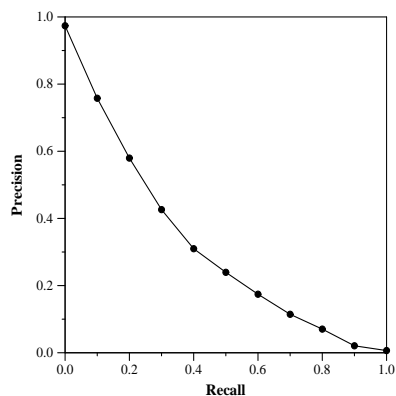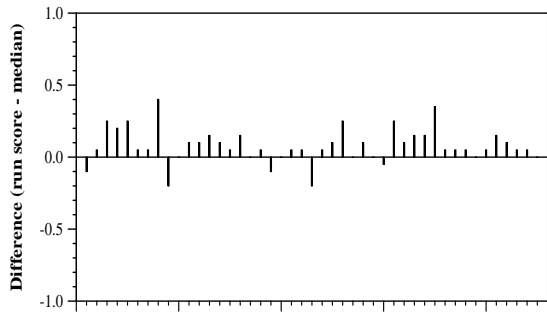

Per-topic difference from median bpref for all Round 4 runs
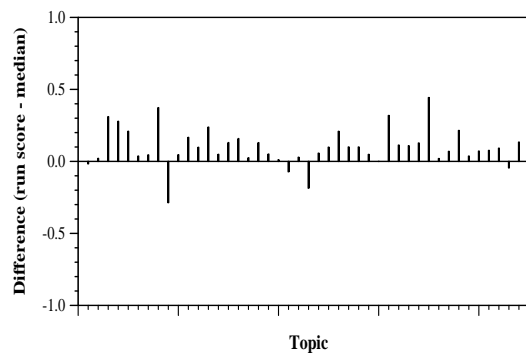
Per-topic difference from median NDCG@20 for all Round 4 runs

Per-topic difference from median P@20 for all Round 4 runs
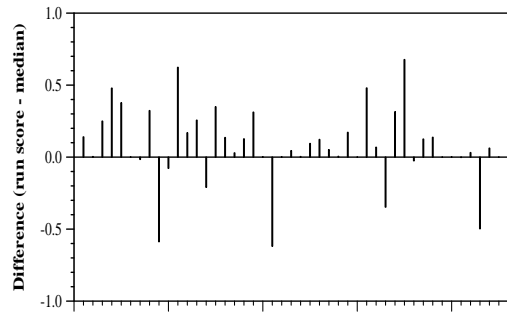
Per-topic difference from median RBP(p=0.5) for all Round 4 runs