Round 2 results — Run Technion-JPDs submitted from Technion

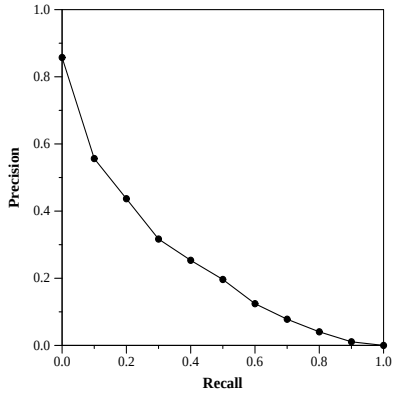
Run Description

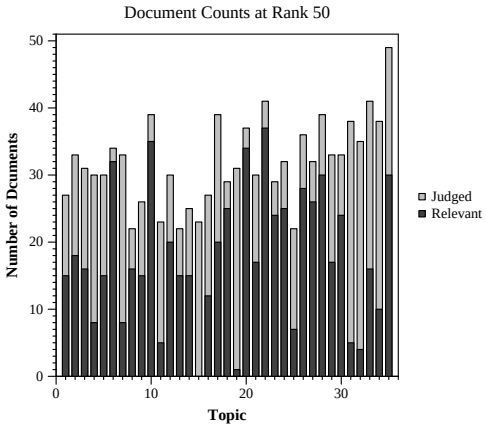
We use the JPDs method (c.f., [Sheetrit E, Shtok A, Kurland O (2020) A Passage-Based Approach to Learning to Rank Documents. Information Retrieval Journal 23, 159–186 (2020). https://doi.org/10.1007/s10791-020- 09369-x]). We use a BERT-base (12 layers, 768 hidden size) fine-tuned on Ms Marco passage dataset to induce an effective ranking of passages from the documents that were initially retrieved in response to the query. Specifically, we use a standard unigram language model approach to retrieve an initial list of 1000 documents for a query after removing the documents that has already been judged.

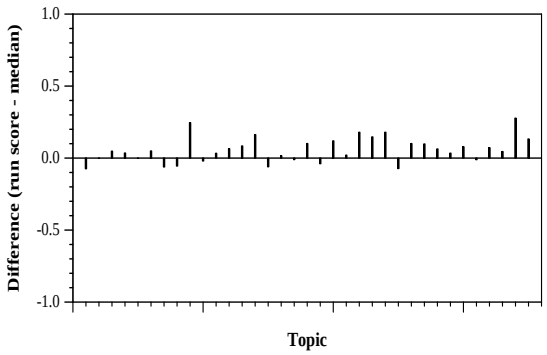
Summary Statistics	
Run ID	Technion-JPDs
Topic type	feedback
Contributed to judgment sets?	no

Overall measures	
Number of topics	35
Total number retrieved	35000
Total relevant	3002
Total relevant retrieved	1883
MAP	0.2356
Mean Bpref	0.4268
Mean NDCG@10	0.5221
Mean RBP(p=0.5)	0.6007 +0.0297

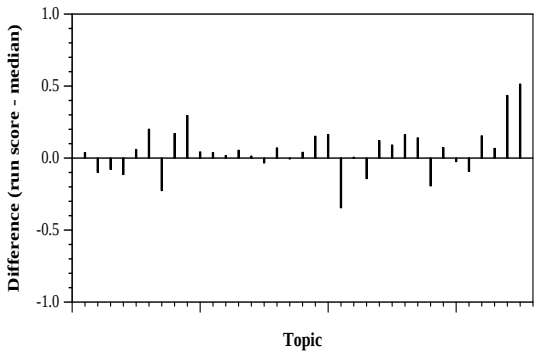
Document Level Averages	
	Precision
At 5 docs	0.5943
At 10 docs	0.5657
At 15 docs	0.5162
At 20 docs	0.4743
At 30 docs	0.4295
R-Precision	
Exact	0.2894







Per-topic difference from median bpref for all Round 2 runs



Per-topic difference from median NDCG@10 for all Round 2 runs

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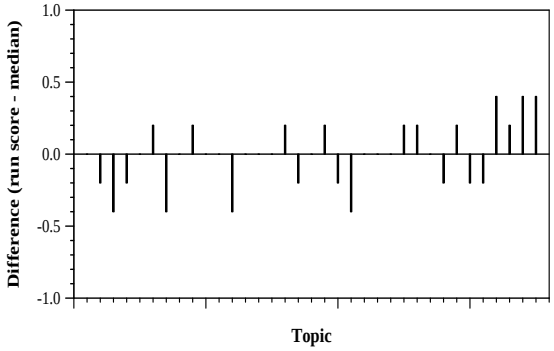
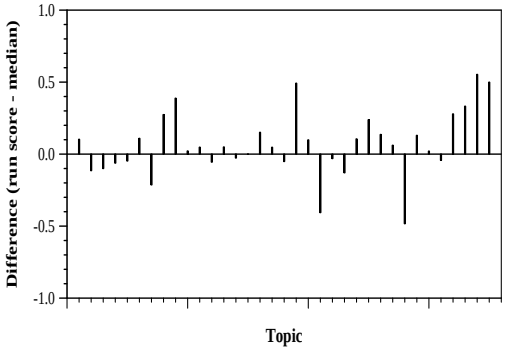


Per-topic difference from median P@5 for all Round 2 runs



Per-topic difference from median RBP(p=0.5) for all Round 2 runs