

## Round 1 results — Run KU\_run3 submitted from IRLabKU

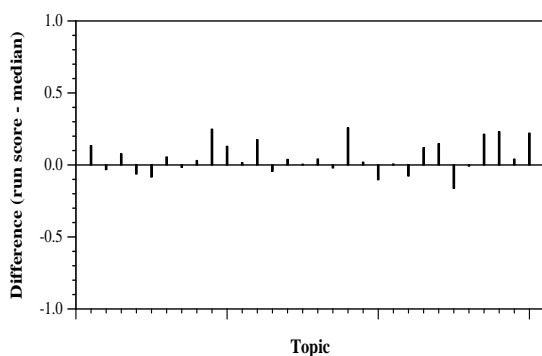
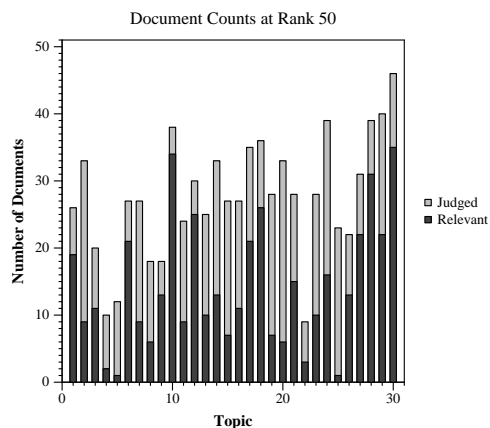
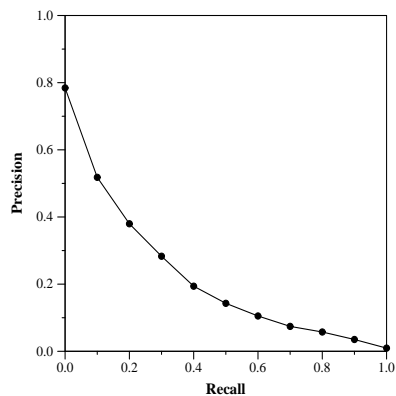
### Run Description

First, we built a paragraph-level index where we create a document for indexing comprising the title, abstract, and that paragraph. We use BM25 implementation from the Indri Search engine with  $k1=1.2$  and  $b=0.75$  to generate an initial ranking. After retrieving the initial ranking, we re-rank the top-50 documents prioritizing articles published in 2020. Next, using the pre-trained BioBERT from the HuggingFace Transformer library we generate representations of each paragraph and queries, compute the similarity between both, and finally re-sort the documents according to each similarity score.

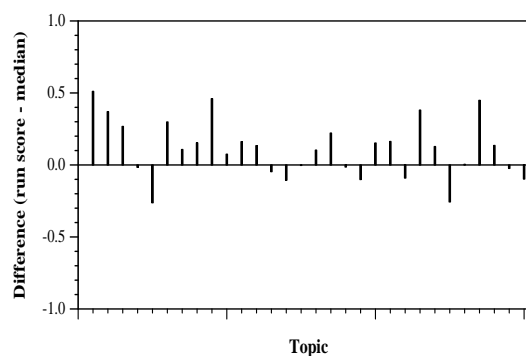
Summary Statistics	
Run ID	KU_run3
Topic type	automatic
Contributed to judgment sets?	yes

Overall measures	
Number of topics	30
Total number retrieved	30000
Total relevant	2352
Total relevant retrieved	1346
MAP	0.2116
Mean Bpref	0.3787
Mean NDCG@10	0.4670

Document Level Averages	
	Precision
At 5 docs	0.5667
At 10 docs	0.5567
At 15 docs	0.5067
At 20 docs	0.4667
At 30 docs	0.3867
R-Precision	
Exact	0.2555



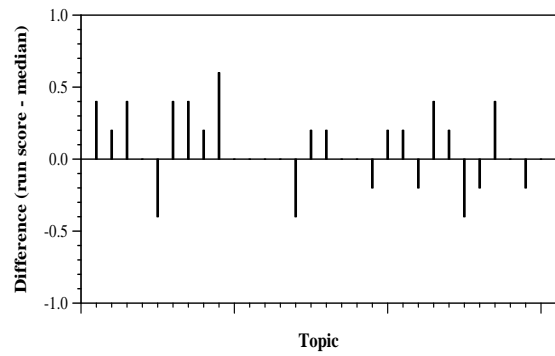
Per-topic difference from median bpref for all Round 1 runs



Per-topic difference from median NDCG@10 for all Round 1 runs

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Per-topic difference from median P@5 for all Round 1 runs