Round 2 results — Run Bioinfo-run2 submitted from BioinformaticsUA

Run Description

The system uses a standard BM25 + Neural ranking model. In the retrieval were considered only documents that have title+abstract, the model was trained on BioASQ 7b and finetunned on qrels do round1. The neural ranking is built upon the DeepRank model and a more complete description can be found here [1]. The word embeddings were computed on CORD+Pubmed corpus using word2vec. For each topic, the field "question" was used to express the information need on rerank and for the bm25 was used the "UDEL" queries [2]. REFs: [1] T. Almeida and S. Matos, "Calling Attention to Passages for Biomedical Question Answering," in Advances in Information Retrieval, 2020, pp. 69–77. [2] https://github.com/castorini/anserini/blob/master/src/main/resources/and-qrels/topics.covid-round2-udel.xml

Summary Statistics	
Run ID	Bioinfo-run2
Topic type	feedback
Contributed to judgment sets?	no

Overall measures	
Number of topics	35
Total number retrieved	35000
Total relevant	3002
Total relevant retrieved	1524
MAP	0.1690
Mean Bpref	0.3612
Mean NDCG@10	0.4535
Mean RBP(p=0.5)	0.5230 +0.1191

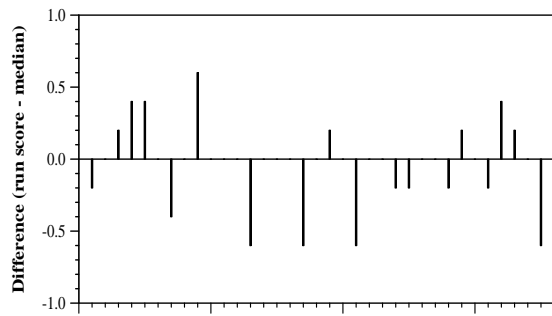| Document Level Averages	
	Precision
At 5 docs	0.5657
At 10 docs	0.4971
At 15 docs	0.4362
At 20 docs	0.4000
At 30 docs	0.3419
R-Precision	
Exact	0.2295

Document Counts at Rank 50
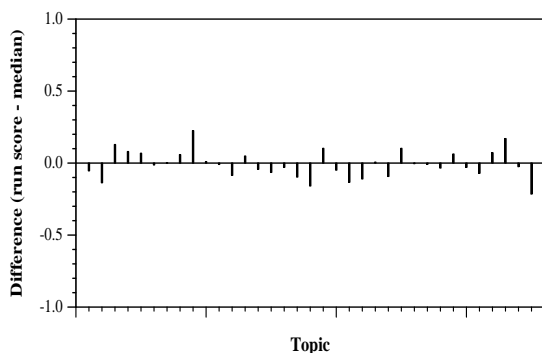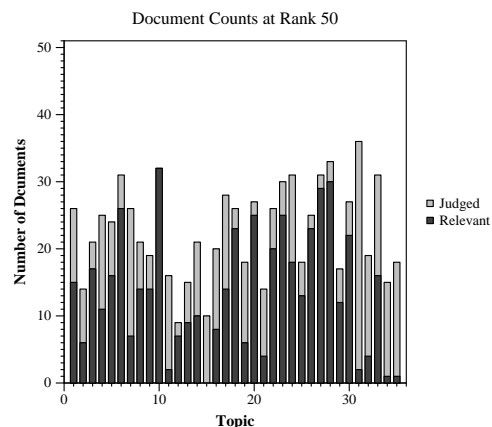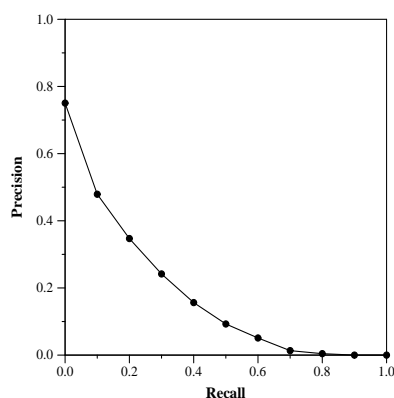
Per-topic difference from median bpref for all Round 2 runs
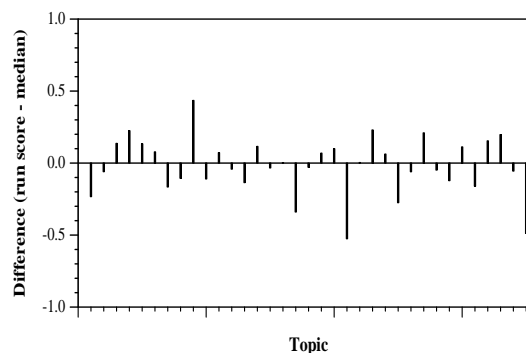
Per-topic difference from median NDCG@10 for all Round 2 runs

Per-topic difference from median P@5 for all Round 2 runs
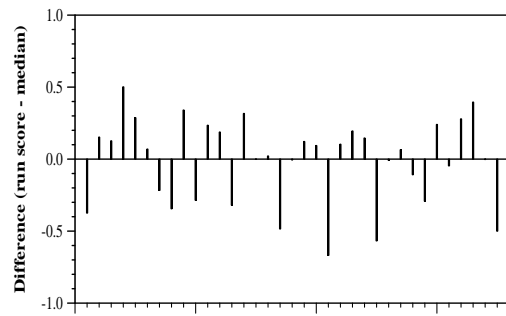
Per-topic difference from median RBP(p=0.5) for all Round 2 runs