

Round 2 results — Run Bioinfo-run1 submitted from BioinformaticsUA

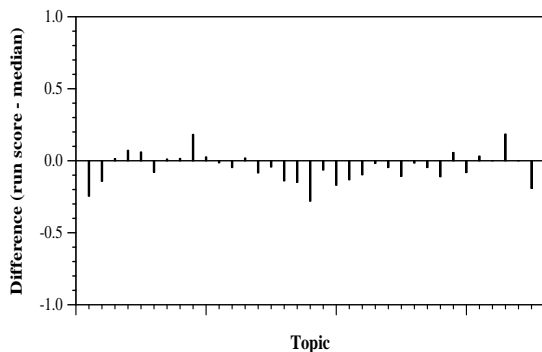
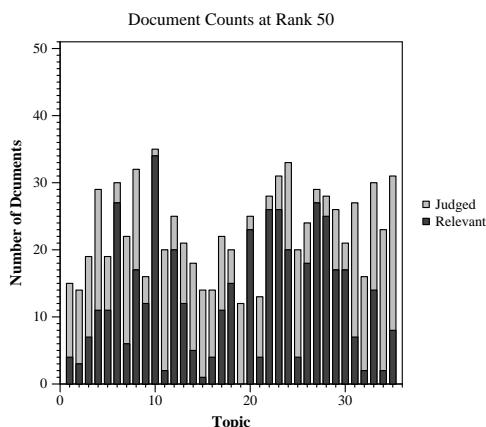
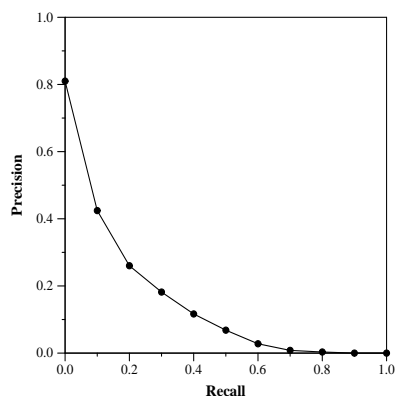
Run Description

This run corresponds to the results of a system that was tuned for the BioASQ challenge (a more broad biomedical Adhoc retrieval challenge). So this submission tries to explore the possible similarity between the data domains in order to train a neural ranking model. The system uses a standard BM25 + Neural ranking model. In the retrieval were considered only documents that have title+abstract to be more similar to the BioASQ data. 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. REFs: [1] T. Almeida and S. Matos, "Calling Attention to Passages for Biomedical Question Answering," in Advances in Information Retrieval, 2020, pp. 69–77.

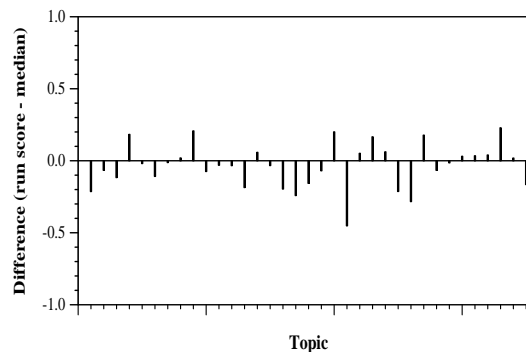
Summary Statistics	
Run ID	Bioinfo-run1
Topic type	automatic
Contributed to judgment sets?	no

Overall measures	
Number of topics	35
Total number retrieved	35000
Total relevant	3002
Total relevant retrieved	1370
MAP	0.1418
Mean Bpref	0.3237
Mean NDCG@10	0.4357
Mean RBP(p=0.5)	0.5272 +0.0893

Document Level Averages	
	Precision
At 5 docs	0.5257
At 10 docs	0.4543
At 15 docs	0.4019
At 20 docs	0.3729
At 30 docs	0.3200
R-Precision	
Exact	0.1929

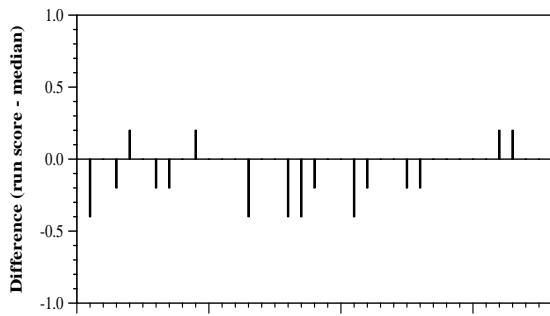


Per-topic difference from median bpref for all Round 2 runs

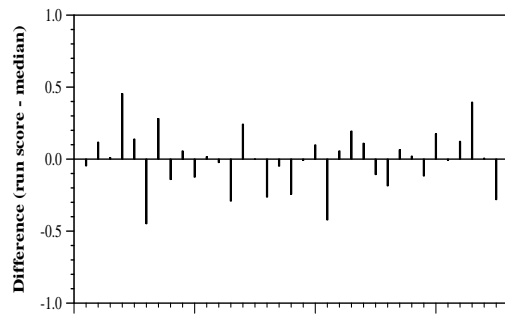


Per-topic difference from median NDCG@10 for all Round 2 runs

Round 2 results — Run Bioinfo-run1 submitted from BioinformaticsUA



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