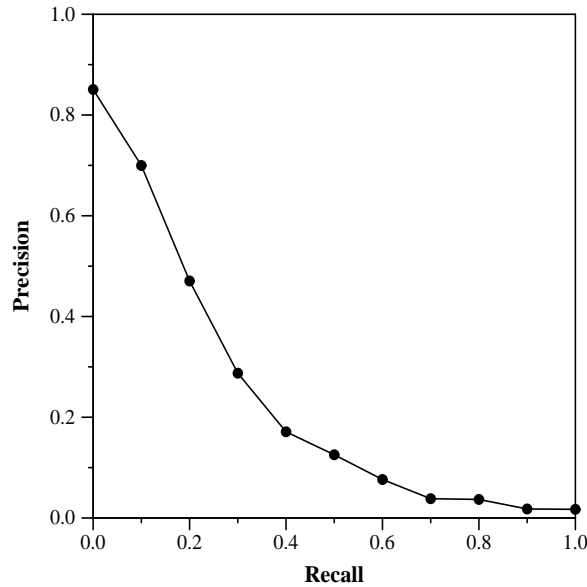


Deep Learning Track results — (BASELINES) Baseline Runs for TREC Deep Learning

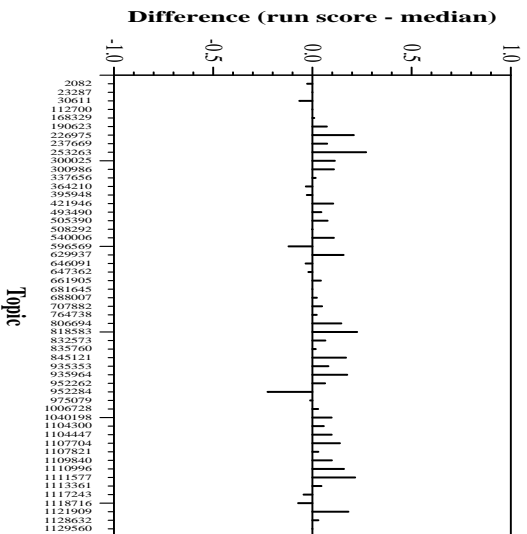
Run Description	
Run ID:	ielab-robertav1
Task:	Passage Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	No
Used deep nn model?	Pre-trained model
Type of training:	Previous year's MS MARCO training data
Pre-processing/indexing cost:	roberta v1 is a neural re-ranker, it does not require any collection processing and indexing.
Query processing cost:	roberta takes query-passage pairs as model inputs and outputs a matching score for each pairs, it takes around 1100 ms to re-rank top100 passages per query on GPU.

Overall measures	
Number of topics	53
Total number retrieved	5300
Total relevant	3427
Total relevant retrieved	879
MAP	0.2246
Mean NDCG@10	0.6551
Mean Reciprocal Rank	0.8144

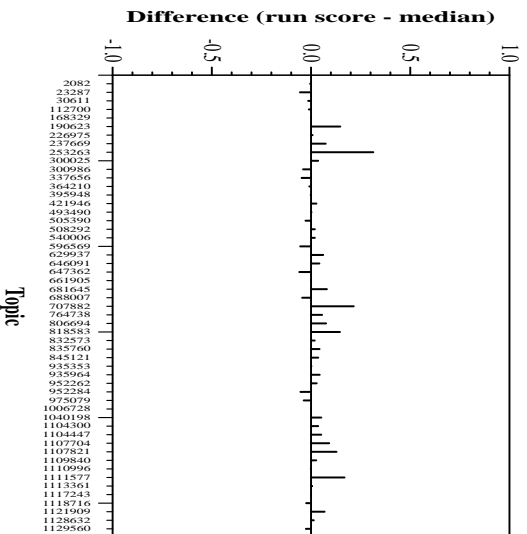
Document Level Averages	
	Precision
At 5 docs	0.6415
At 10 docs	0.5679
At 15 docs	0.5094
At 20 docs	0.4698
At 30 docs	0.3956
R-Precision	
Exact	0.2722



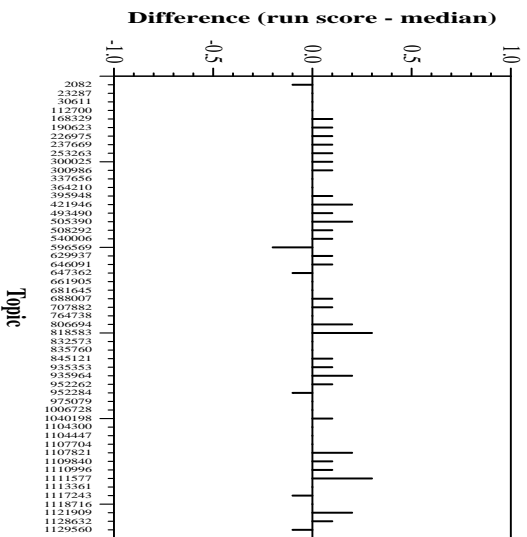
Deep Learning Track results — (BASELINES) Baseline Runs for TRREC Deep Learning



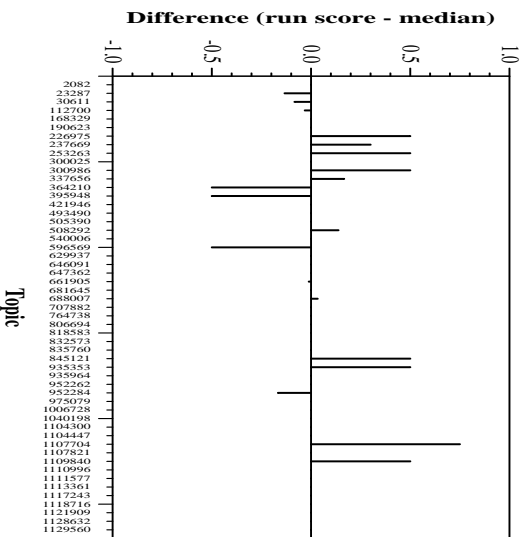
Per-topic difference from median for NDCG@10 for Passage Ranking runs



Per-topic difference from median for Average Precision for Passage Ranking runs



Per-topic difference from median for Prec@10 for Passage Ranking runs



Per-topic difference from median for Reciprocal Rank for Passage Ranking runs