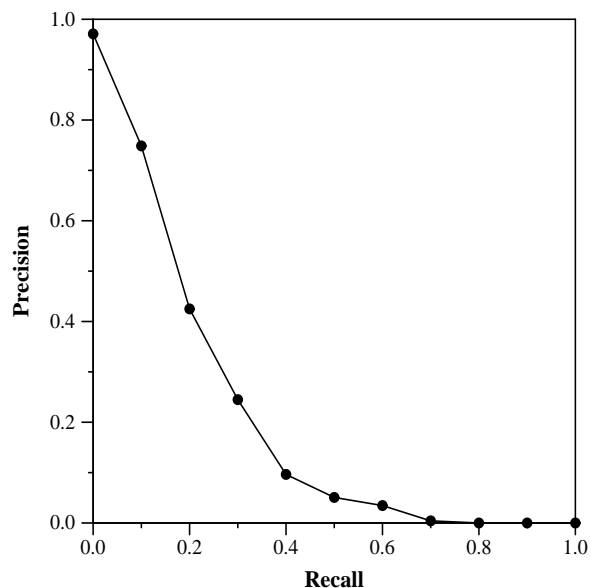


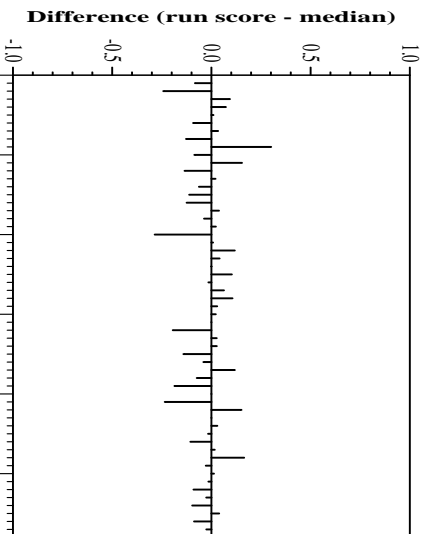
Deep Learning Track results — (BASELINES) Baseline Runs for TREC Deep Learning

Run Description	
Run ID:	ielab-roberta2d
Task:	Document 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:	This year's MS MARCO training data
Pre-processing/indexing cost:	roberta v2 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.

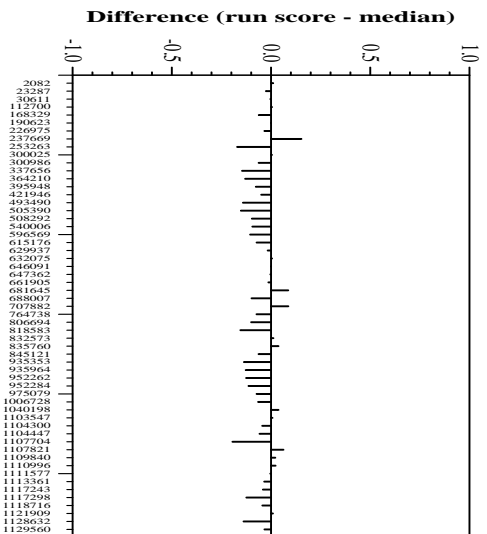
Overall measures		Document Level Averages	
Number of topics	57		Precision
Total number retrieved	4577	At 5 docs	0.8491
Total relevant	8203	At 10 docs	0.8000
Total relevant retrieved	1641	At 15 docs	0.7439
MAP	0.2040	At 20 docs	0.7000
Mean NDCG@10	0.6431	At 30 docs	0.6094
Mean Reciprocal Rank	0.9470		
		R-Precision	
		Exact	0.2443



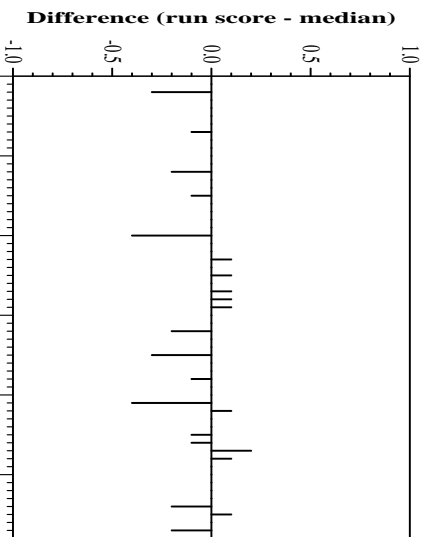
Deep Learning Track results — (BASELINES) Baseline Runs for TRFC Deep Learning



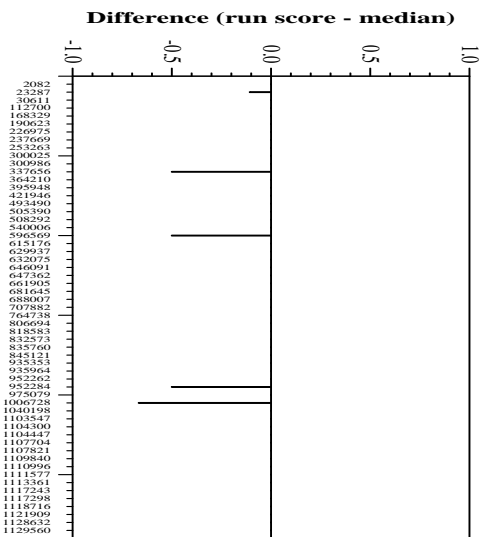
Per-topic difference from median for NDCG@10 for Document Ranking runs



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



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



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