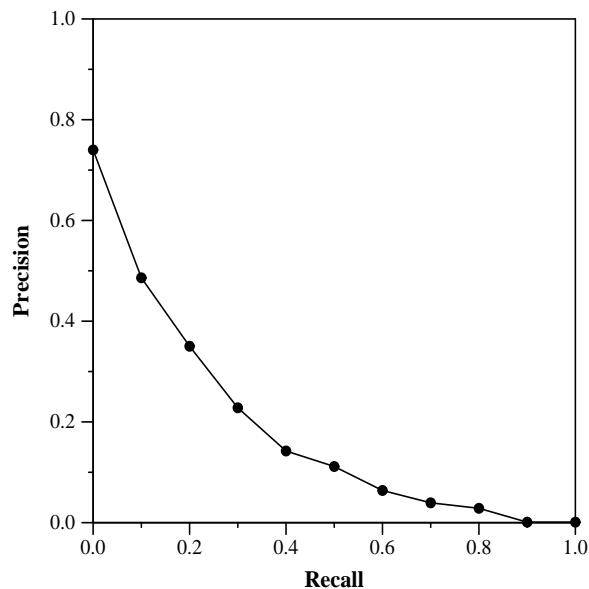


Deep Learning Track results — (BASELINES) Baseline Runs for TREC Deep Learning

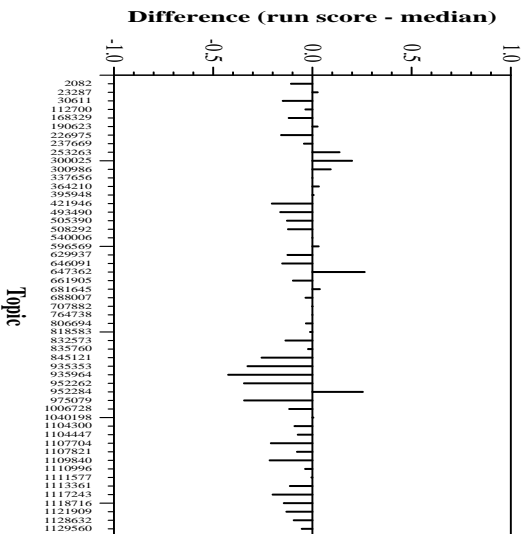
Run Description	
Run ID:	bl_bcai_p_nn_rt
Task:	Passage Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	Yes
Used deep nn model?	Pre-trained model
Type of training:	This year's MS MARCO training data; Previous year's MS MARCO training data
Pre-processing/indexing cost:	0. Training bl_bcai_nn_retr 1. Indexing document texts using Lucene. 2. Creation of forward indices for passages and documents. 3. Training traditional and lexical Model 1 for passage text.
Query processing cost:	1. Retrieval: see the cost of bl_bcai_nn_retr 2. Re-ranking should be quite cheap: in the order of a few 100s of ms per core. Unfortunately, I don't have exact numbers, b/c all indices don't fit into memory and report numbers seriously affected by HDD I/O isn't very interesting.

Overall measures	
Number of topics	53
Total number retrieved	5300
Total relevant	3427
Total relevant retrieved	892
MAP	0.1691
Mean NDCG@10	0.5245
Mean Reciprocal Rank	0.6852

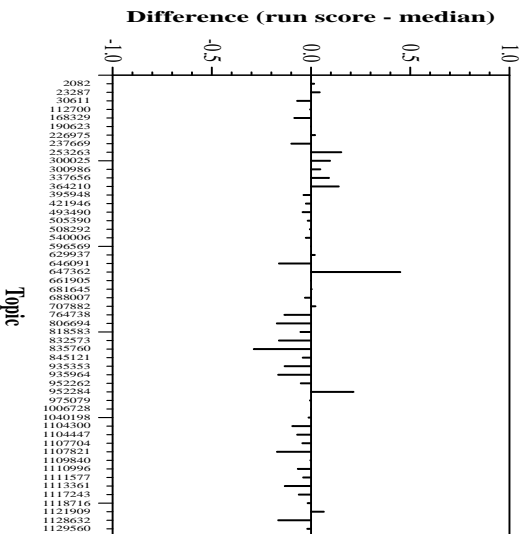
Document Level Averages	
Precision	
At 5 docs	0.4868
At 10 docs	0.4132
At 15 docs	0.3711
At 20 docs	0.3387
At 30 docs	0.2994
R-Precision	
Exact	0.2449



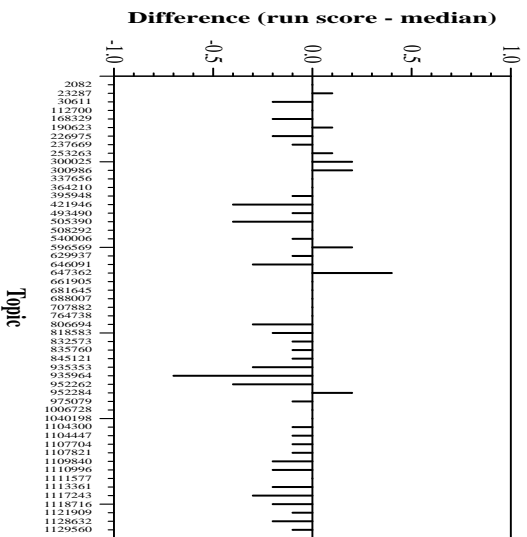
Deep Learning Track results — (BASELINES) Baseline Runs for TRREC Deep Learning



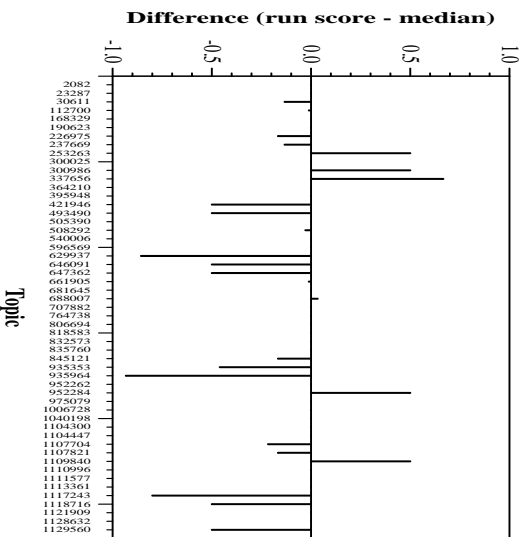
Per-topic difference from median for NDCG@10 for Passage Ranking runs



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