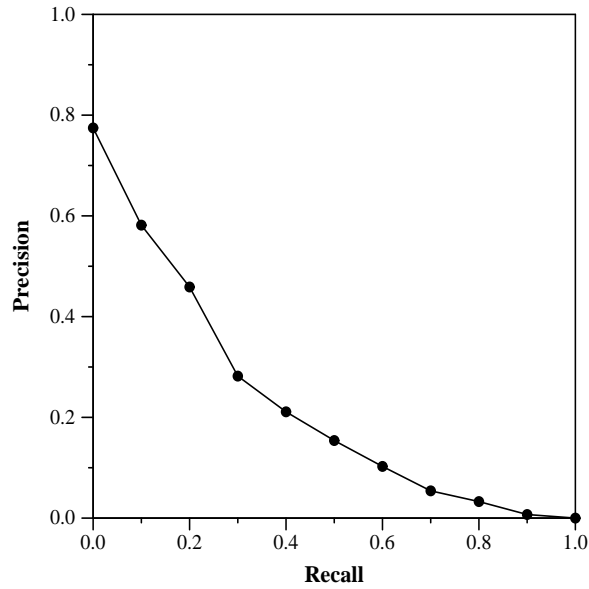
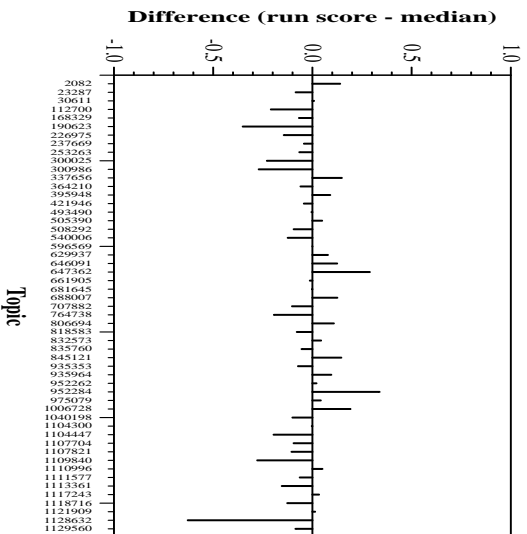


Deep Learning Track results — (TU_Vienna) TU Wien

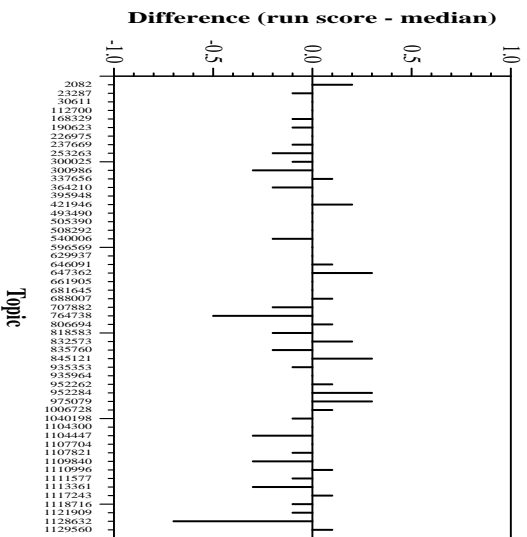
Run Description	
Run ID:	TUW_TAS-B.768
Task:	Passage Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	Yes
Dense retrieval?	Yes
Used deep nn model?	Pre-trained model
Type of training:	Previous year's MS MARCO training data
Pre-processing/indexing cost:	Encoding: 400 GPU-minutes on a single TITAN RTX GPU (Using a single newer generation A40 GPU we observe 320 GPU-Minutes); Indexing for a full index is only loading vectors from disk: 3 CPU-minutes
Query processing cost:	Brute force on the CPU for single query: 42 CPU-seconds (on a single core)

Overall measures		Document Level Averages	
Number of topics	53		Precision
Total number retrieved	5300	At 5 docs	0.5396
Total relevant	3427	At 10 docs	0.4679
Total relevant retrieved	1150	At 15 docs	0.4553
MAP	0.2093	At 20 docs	0.4066
Mean NDCG@10	0.5619	At 30 docs	0.3616
Mean Reciprocal Rank	0.7333		
		R-Precision	
		Exact	0.2750

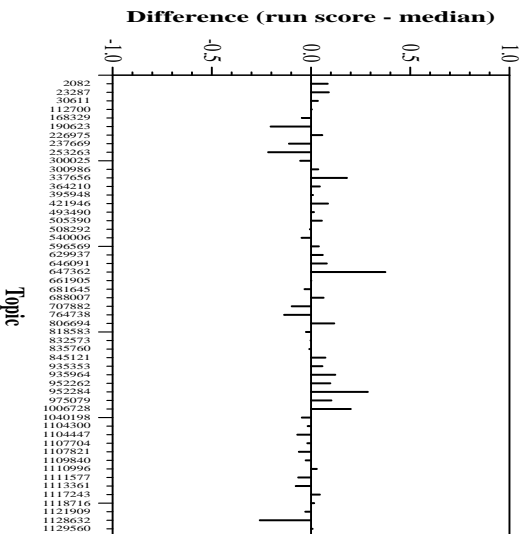




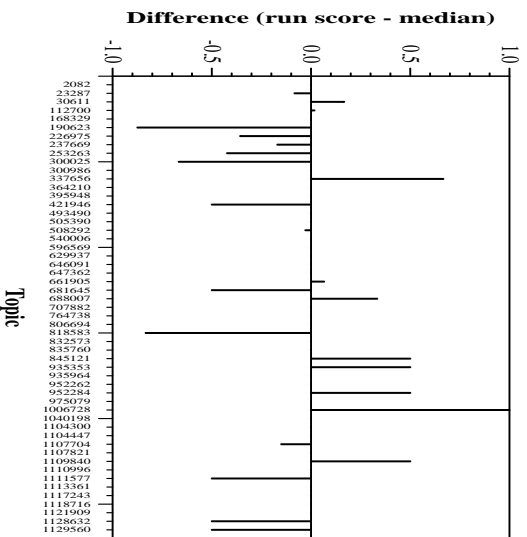
Per-topic difference from median for NDCG@10 for Passage Ranking runs



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



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



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