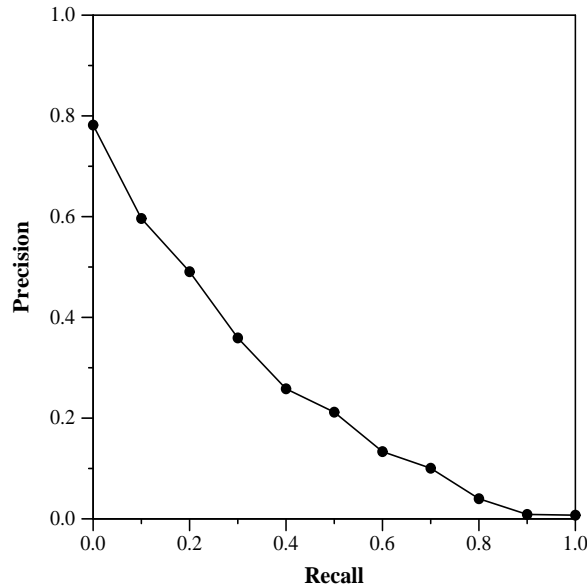
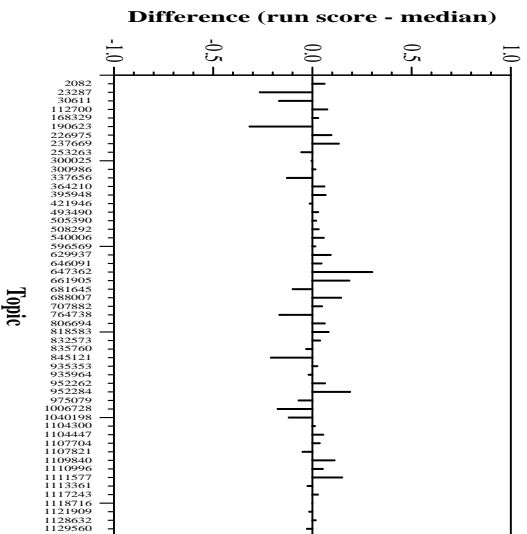


Deep Learning Track results — (NLE) Naver Labs Europe

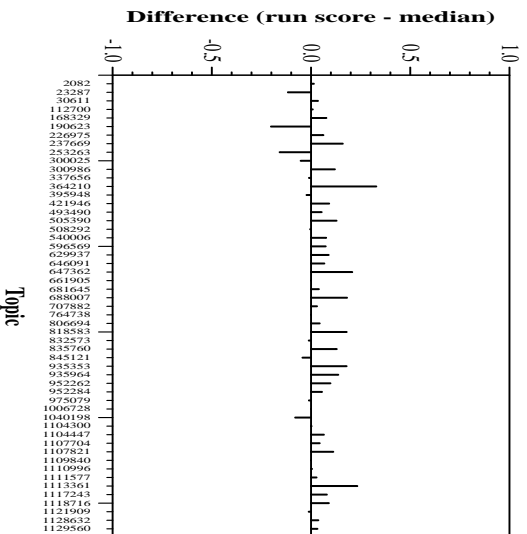
Run Description	
Run ID:	NLE_P_quick
Task:	Passage Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	Yes
Dense retrieval?	No
Used deep nn model?	Pre-trained model
Type of training:	Previous year's MS MARCO training data
Pre-processing/indexing cost:	Around 1 day on 4V100 for indexing. Index takes ~100 GB after finished. Index is then used only on CPU
Query processing cost:	First stage ranker takes around 500 ms per query on 4 cpus, no GPUs are used for processing the query

Overall measures		Document Level Averages	
Number of topics	53		Precision
Total number retrieved	5300	At 5 docs	0.5698
Total relevant	3427	At 10 docs	0.5302
Total relevant retrieved	1282	At 15 docs	0.4692
MAP	0.2443	At 20 docs	0.4528
Mean NDCG@10	0.6087	At 30 docs	0.4075
Mean Reciprocal Rank	0.7342	R-Precision	
		Exact	0.3123

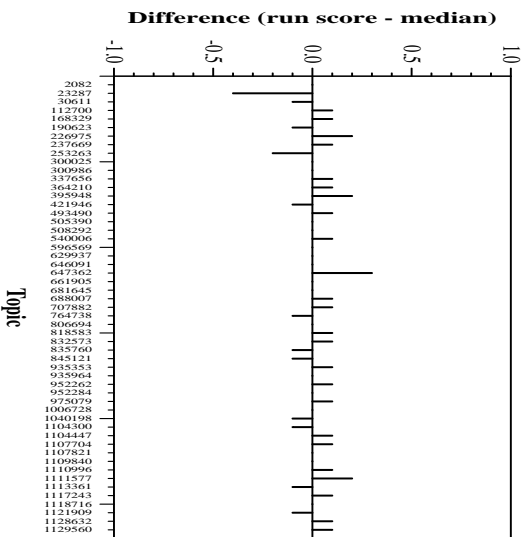




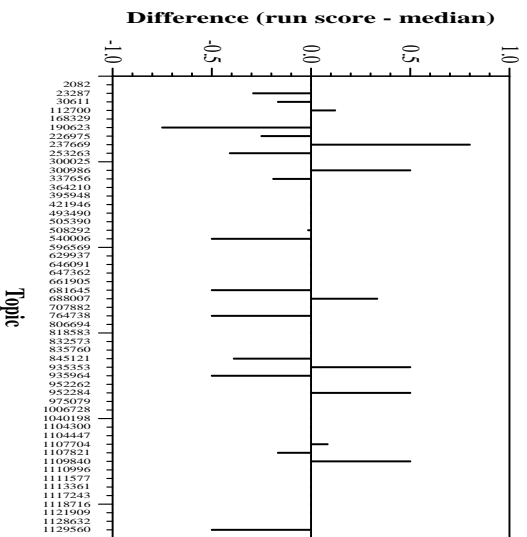
Per-topic difference from median for NDCG@10 for Passage Ranking runs



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