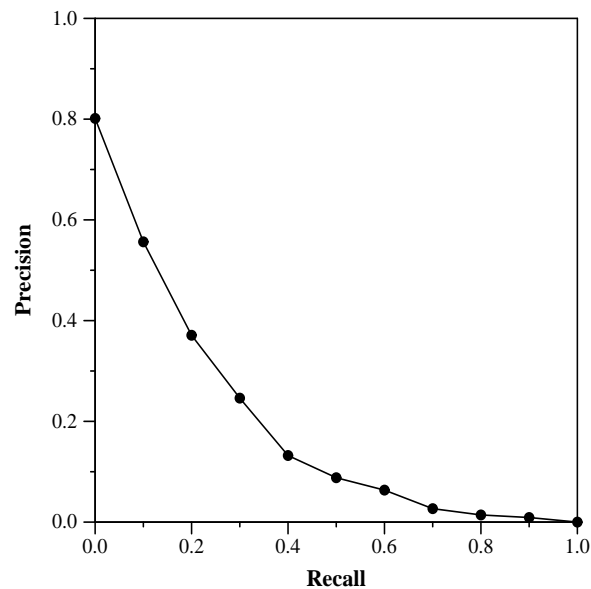


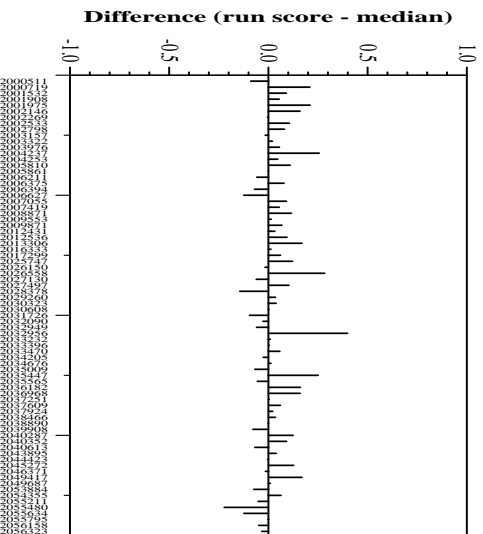
Deep Learning Track results — (NLE) Naver Labs Europe

Run Description	
Run ID:	SPLADE_PP_ED
Task:	Passage Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	No
Baseline run?	Yes
Used deep nn model?	Pre-trained model
Type of training:	Previous year's MS MARCO training data
Training cost:	Unfortunately we did not track the training cost, but if I remember correctly is one day on 4 V100
Pre-processing/indexing cost:	25 GPU hours on V100 (divided into 25 mono gpu jobs)
Query processing cost:	Around 2 minutes using 64 cpu-cores and the PISA software. No gpu used

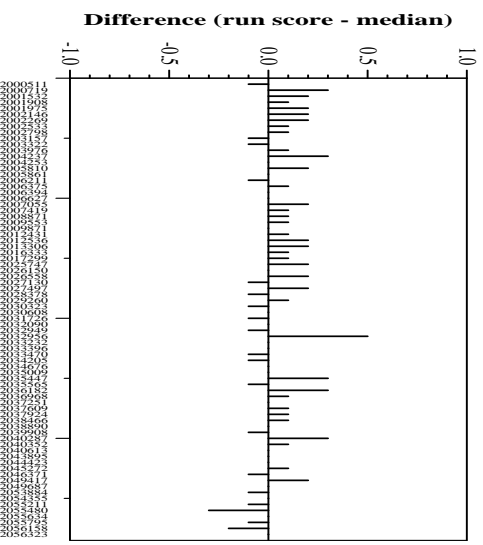
Overall measures	
Number of topics	76
Total number retrieved	6564
Total relevant	4613
Total relevant retrieved	1274
MAP	0.1802
Mean NDCG@10	0.5716
Mean Reciprocal Rank	0.7637

Document Level Averages	
Precision	
At 5 docs	0.5421
At 10 docs	0.4855
At 15 docs	0.4272
At 20 docs	0.3941
At 30 docs	0.3316
R-Precision	
Exact	0.2629

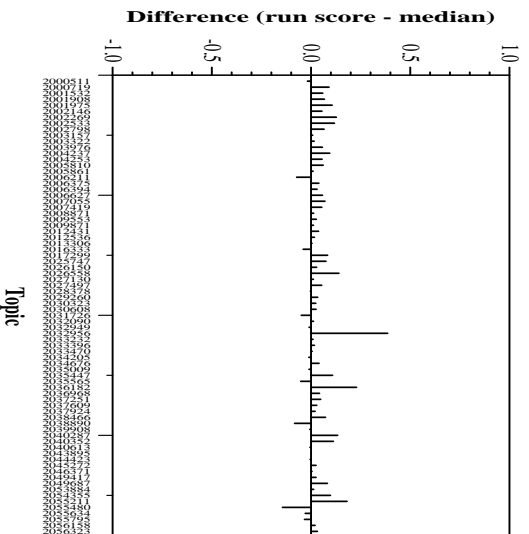




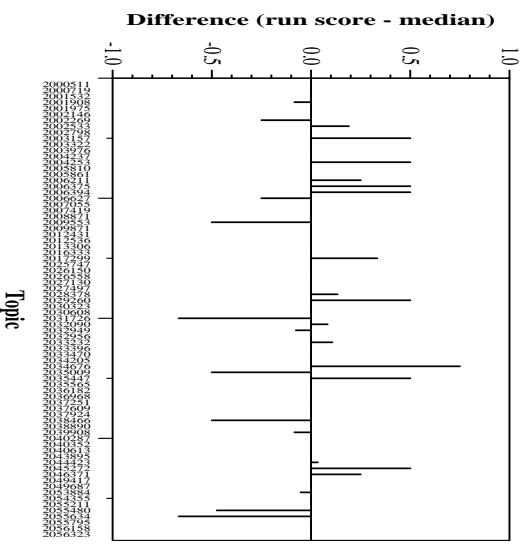
Per-topic difference from median for NDCG@10 for Passage Ranking runs



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