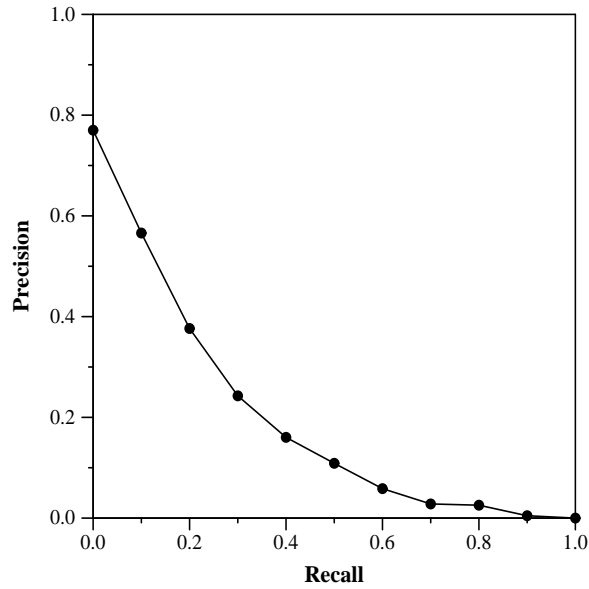
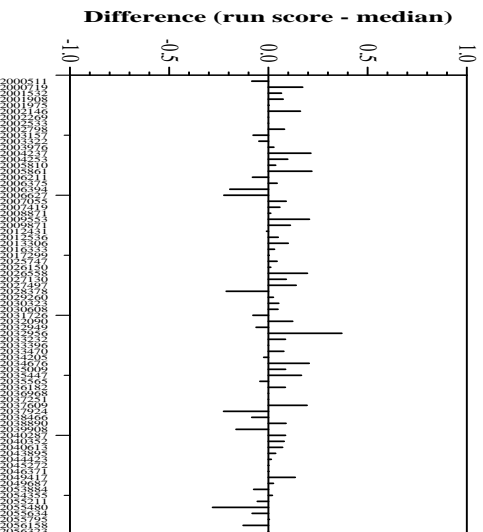


Deep Learning Track results — (NLE) Naver Labs Europe

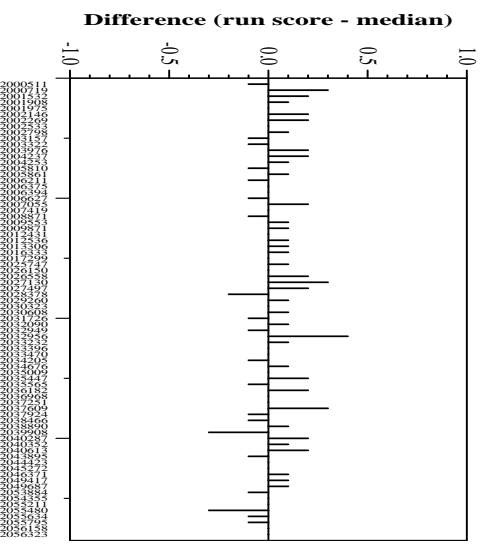
Run Description	
Run ID:	SPLADE_PP_SD
Task:	Passage Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	No
Baseline run?	Yes
Used deep nn model?	Pre-trained model
Type of training:	Previous year's MS MARCO training data
Training cost:	Unfortunately 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 with 64 cpu-cores and the PISA software. No gpu used

Overall measures		Document Level Averages	
Number of topics	76		Precision
Total number retrieved	6562	At 5 docs	0.5474
Total relevant	4613	At 10 docs	0.4750
Total relevant retrieved	1320	At 15 docs	0.4254
MAP	0.1853	At 20 docs	0.3882
Mean NDCG@10	0.5617	At 30 docs	0.3338
Mean Reciprocal Rank	0.7104	R-Precision	
		Exact	0.2653

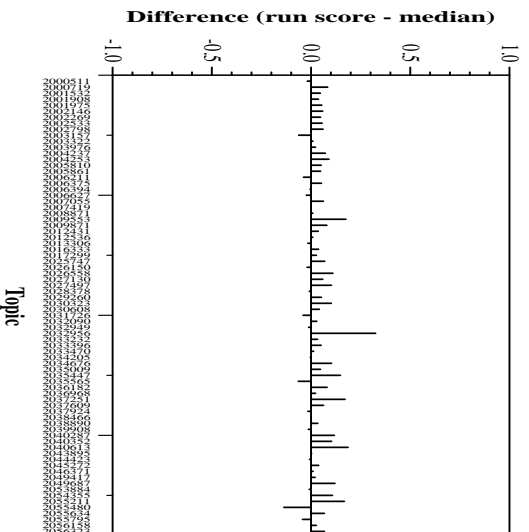




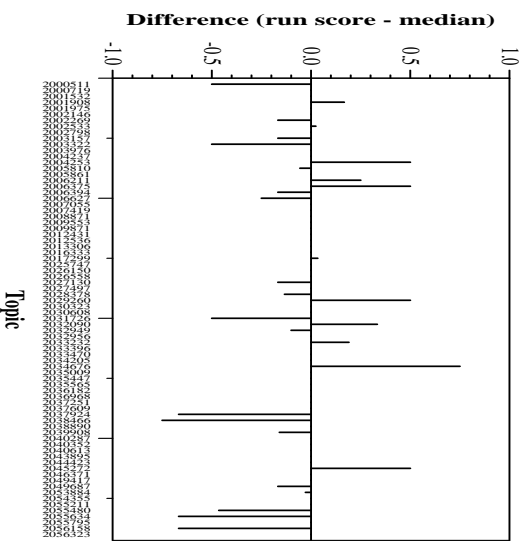
Per-topic difference from median for NDCG@10 for Passage Ranking runs



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