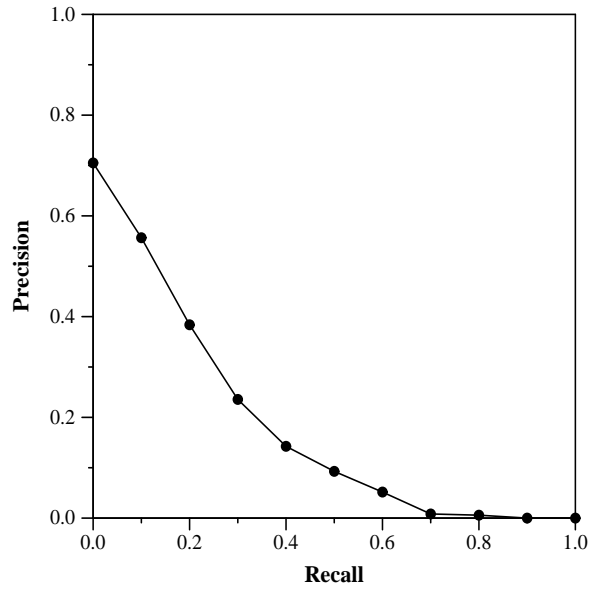
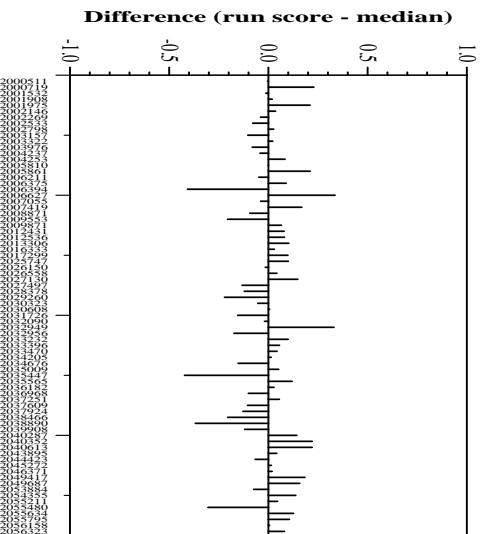


Deep Learning Track results — (NLE) Naver Labs Europe

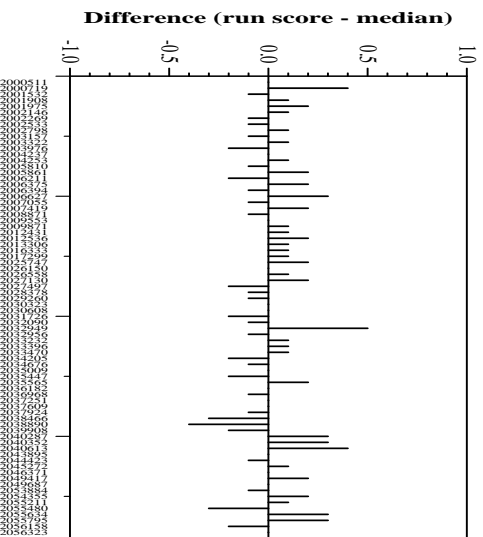
Run Description	
Run ID:	SPLADE_EFF_V_RCIO
Task:	Passage Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	No
Baseline run?	Yes
Used deep nn model?	Pre-trained model
Type of training:	Previous year's MS MARCO training data
Training cost:	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:	Estimated 1 minute due to rocchio on 64 cpu-cores and the PISA software (2 minutes for each model). No gpu used

Overall measures		Document Level Averages	
		Precision	
Number of topics	76	At 5 docs	0.5289
Total number retrieved	6597	At 10 docs	0.4605
Total relevant	4613	At 15 docs	0.4140
Total relevant retrieved	1287	At 20 docs	0.3862
MAP	0.1729	At 30 docs	0.3355
Mean NDCG@10	0.5381	R-Precision	
Mean Reciprocal Rank	0.6548	Exact	0.2521

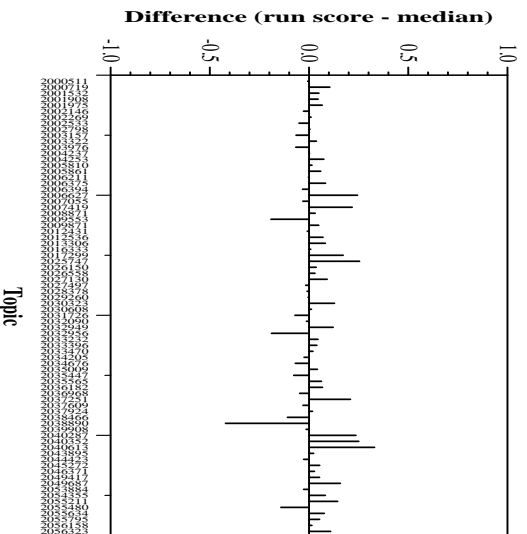




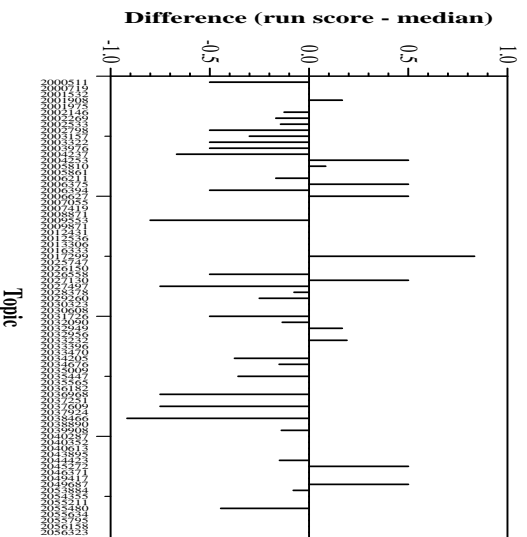
Per-topic difference from median for NDCG@10 for Passage Ranking runs



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