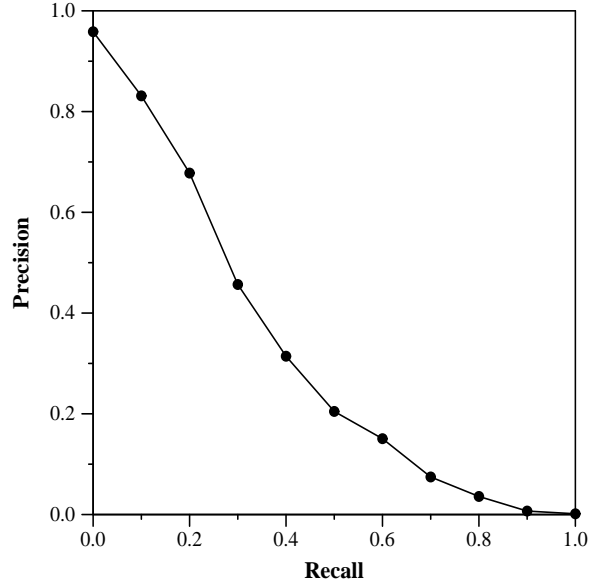


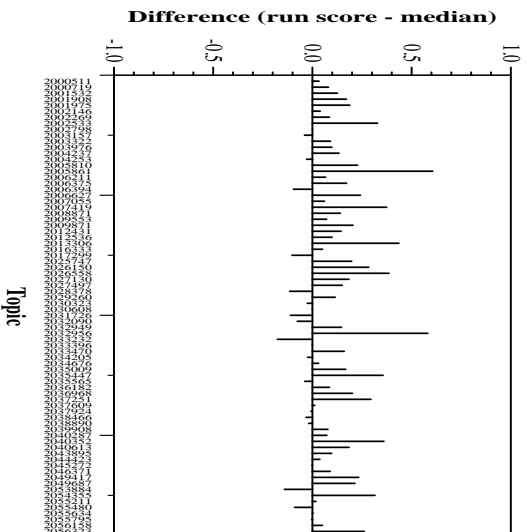
Deep Learning Track results — (NLE) Naver Labs Europe

Run Description	
Run ID:	SPLADE_PP_ED_RCIO_D
Task:	Document 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:	No true measured with rocchio. We estimate 4 minutes, because it takes 2 when doing normal retrieval. Estimates with 64 cpu-cores and the PISA software. No gpu used

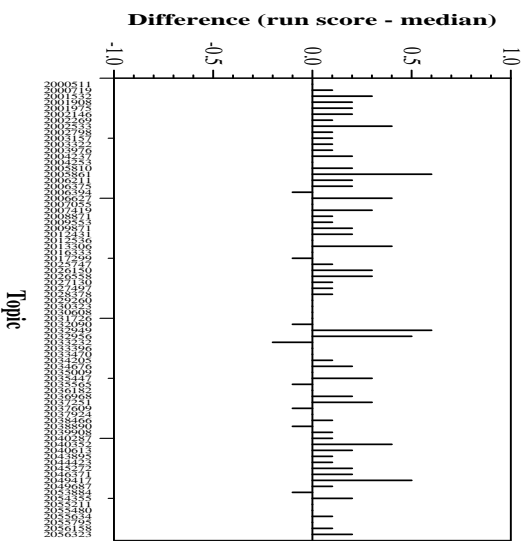
Overall measures	
Number of topics	76
Total number retrieved	7600
Total relevant	9152
Total relevant retrieved	3069
MAP	0.3159
Mean NDCG@10	0.6579
Mean Reciprocal Rank	0.9457

Document Level Averages	
	Precision
At 5 docs	0.8605
At 10 docs	0.8171
At 15 docs	0.7667
At 20 docs	0.7283
At 30 docs	0.6614
R-Precision	
Exact	0.3713

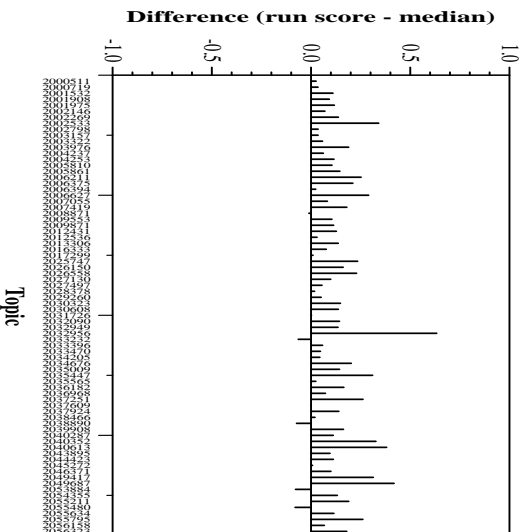




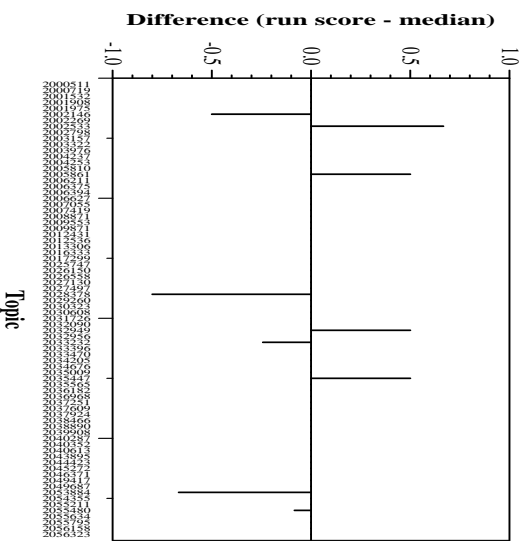
Per-topic difference from median for NDCG@10 for Document Ranking runs



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



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



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