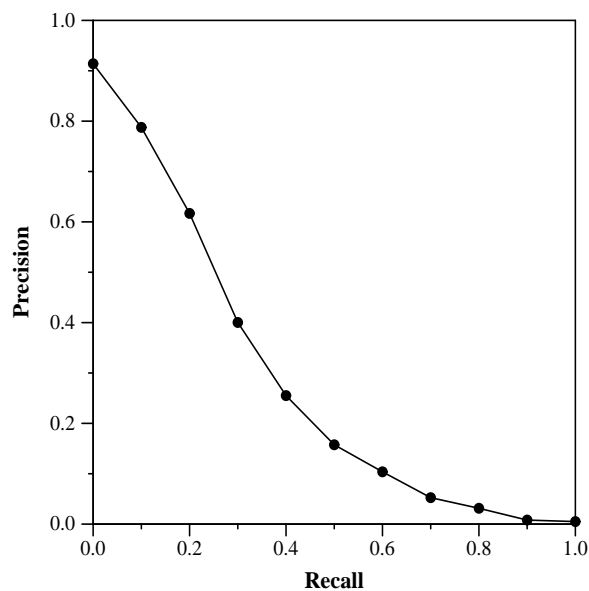


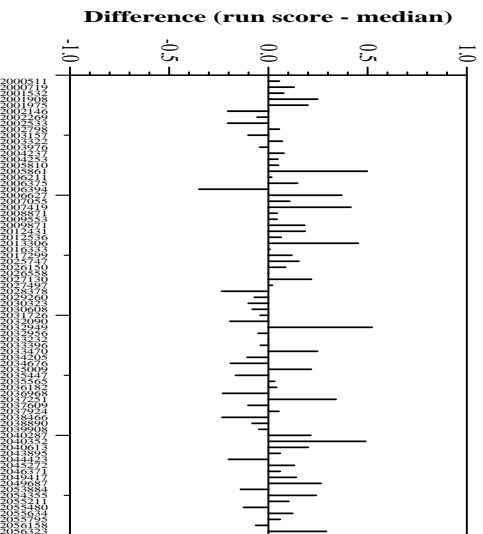
Deep Learning Track results — (NLE) Naver Labs Europe

Run Description	
Run ID:	SPLADE_EFF_V_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:	Estimated 1 minute due to rocchio on 64 cpu-cores and the PISA software (2 minutes for each model). No gpu used

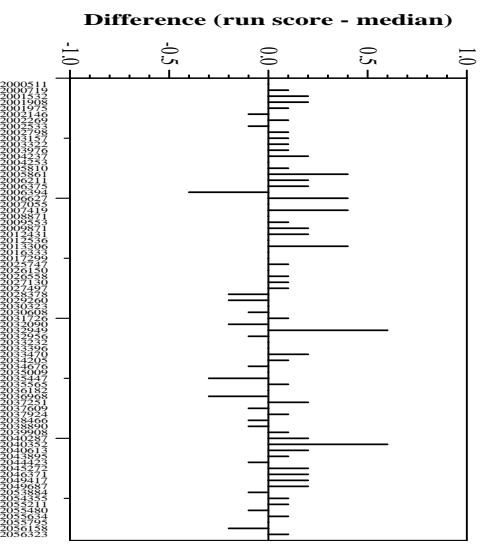
Overall measures	
Number of topics	76
Total number retrieved	7600
Total relevant	9152
Total relevant retrieved	2924
MAP	0.2785
Mean NDCG@10	0.6053
Mean Reciprocal Rank	0.8917

Document Level Averages	
Precision	
At 5 docs	0.8079
At 10 docs	0.7539
At 15 docs	0.7272
At 20 docs	0.6908
At 30 docs	0.6193
R-Precision	
Exact	0.3282

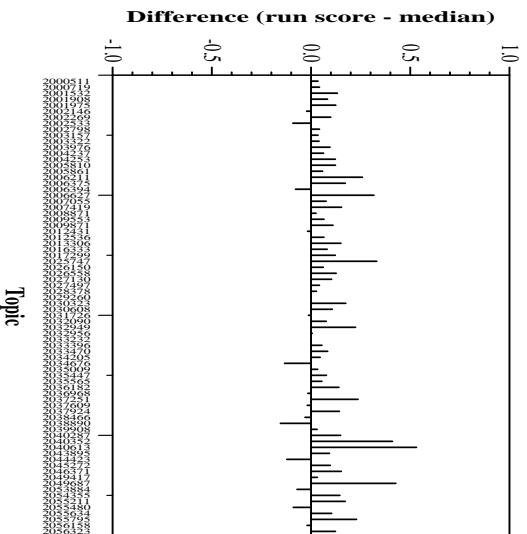




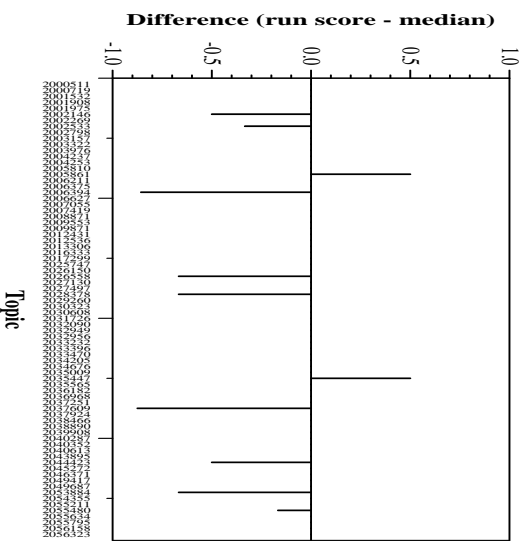
Per-topic difference from median for NDCG@10 for Document Ranking runs



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