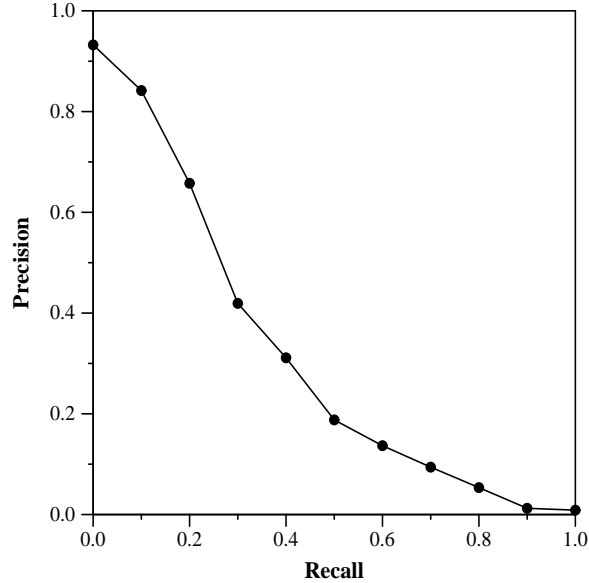
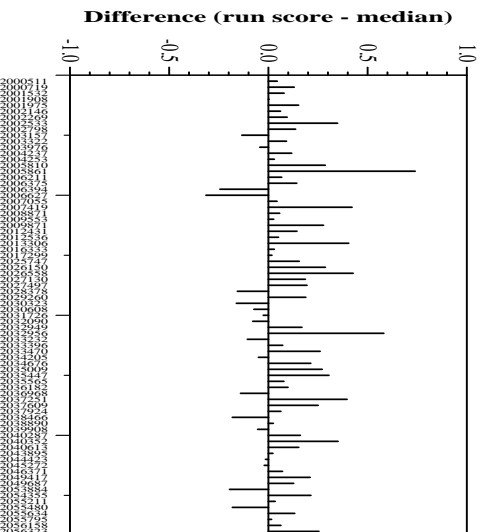


Deep Learning Track results — (NLE) Naver Labs Europe

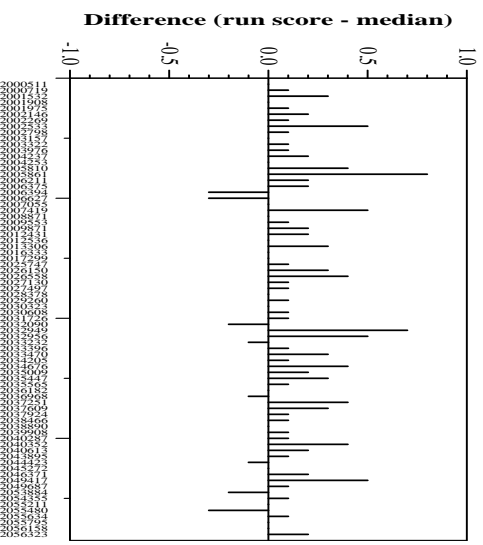
Run Description	
Run ID:	SPLADE_PP_SD_RCIO_D
Task:	Document Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	No
Baseline run?	Yes
Used deep nn model?	Pre-trained model
Type of training:	Previous year's MS MARCO training data
Training 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		Document Level Averages	
Number of topics	76		Precision
Total number retrieved	7600	At 5 docs	0.8526
Total relevant	9152	At 10 docs	0.8184
Total relevant retrieved	3036	At 15 docs	0.7719
MAP	0.3122	At 20 docs	0.7322
Mean NDCG@10	0.6491	At 30 docs	0.6566
Mean Reciprocal Rank	0.9162	R-Precision	
		Exact	0.3642

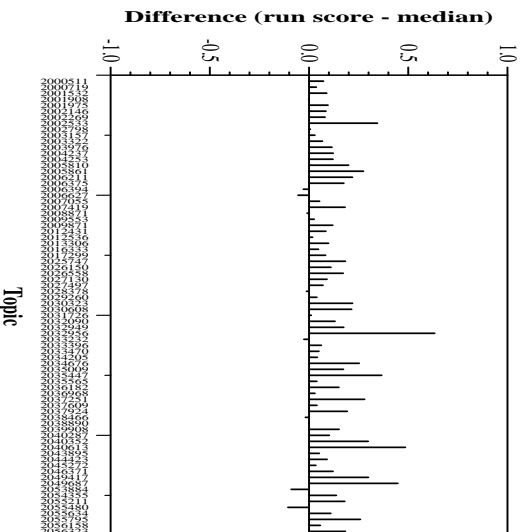




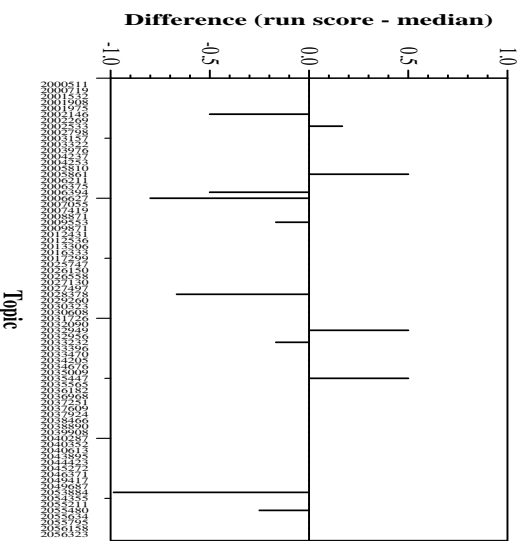
Per-topic difference from median for NDCG@10 for Document Ranking runs



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