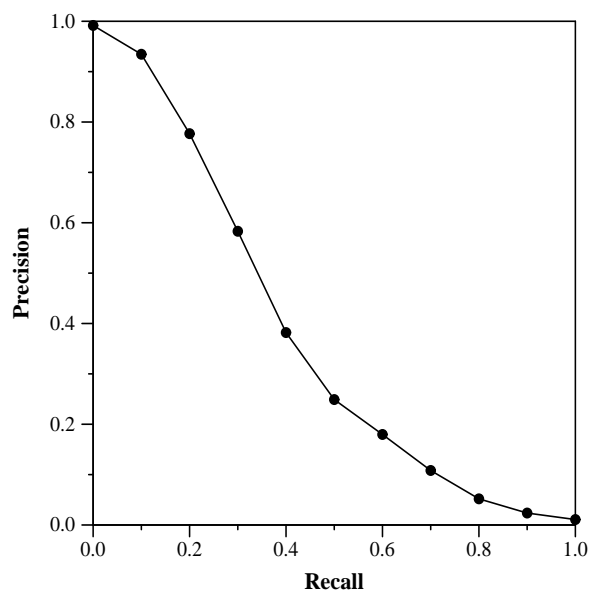
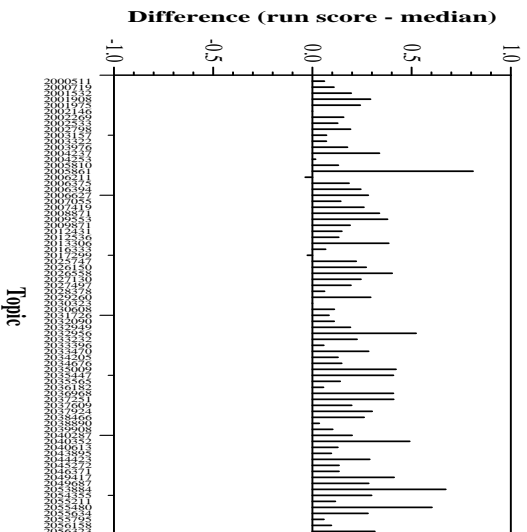


Deep Learning Track results — (NLE) Naver Labs Europe

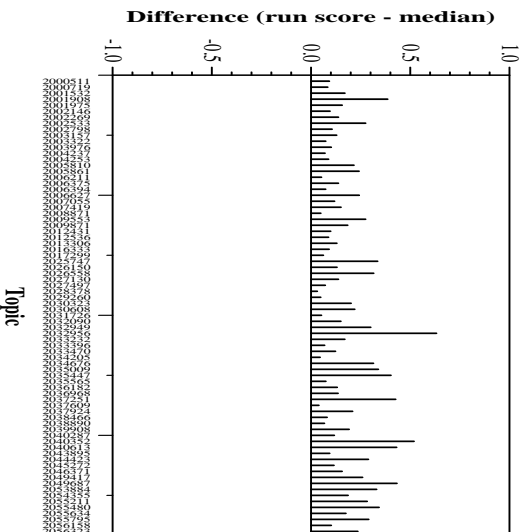
Run Description	
Run ID:	NLE_SPLADE_CBERT_RR_D
Task:	Document Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	No
Baseline run?	No
Used deep nn model?	Pre-trained model
Type of training:	Previous year's MS MARCO training data
Training cost:	Unfortunately we did not track the training cost.
Pre-processing/indexing cost:	25 GPU hours on V100 (divided into 25 mono gpu jobs) for indexing for each SPLADE. The same for ColBERT but using A100.
Query processing cost:	We did not track query processing cost

Overall measures		Document Level Averages	
Number of topics	76		Precision
Total number retrieved	7600	At 5 docs	0.9368
Total relevant	9152	At 10 docs	0.8855
Total relevant retrieved	3325	At 15 docs	0.8491
MAP	0.3748	At 20 docs	0.8118
Mean NDCG@10	0.7636	At 30 docs	0.7259
Mean Reciprocal Rank	0.9836		
		R-Precision	
		Exact	0.4133

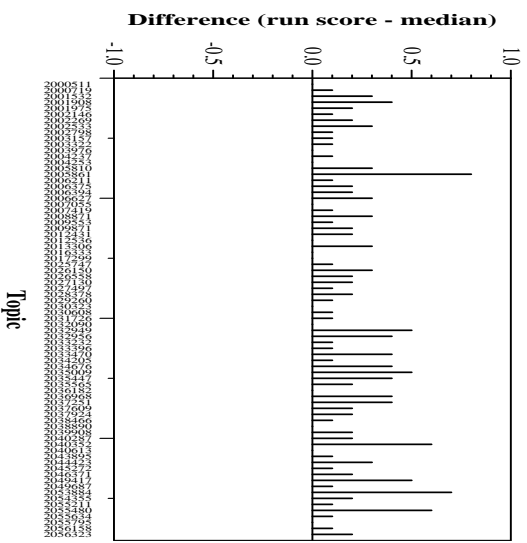




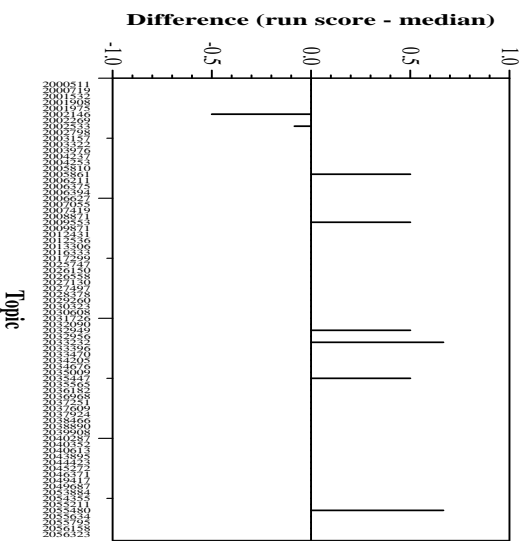
Per-topic difference from median for NDCG@10 for Document Ranking runs



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



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



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