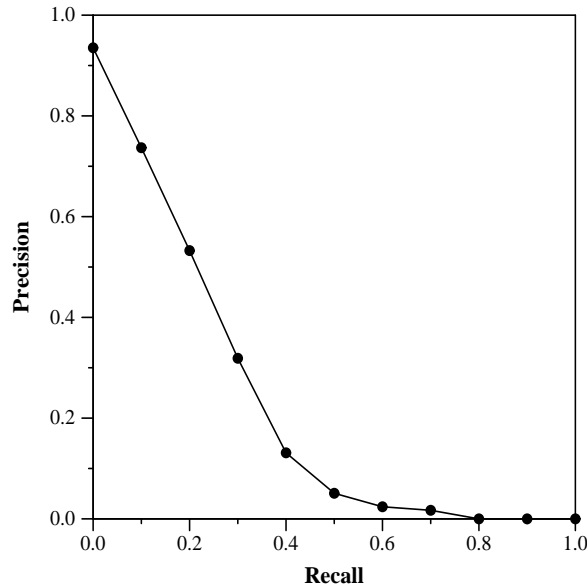
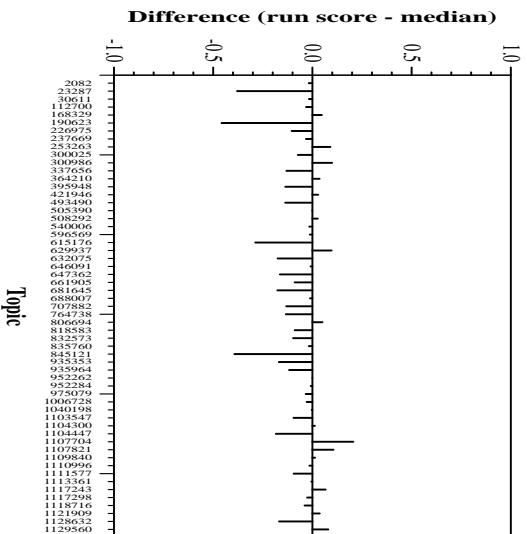


Deep Learning Track results — (NLE) Naver Labs Europe

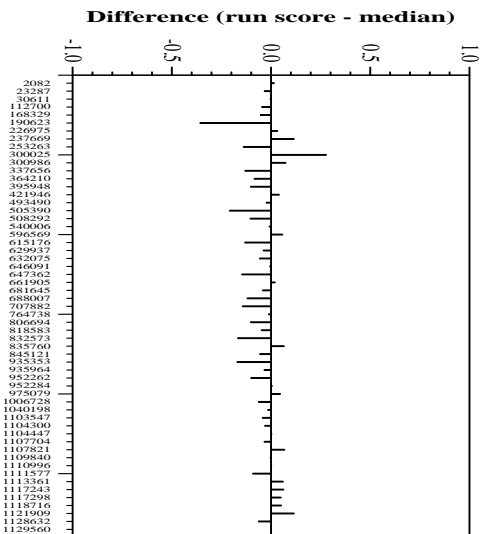
Run Description	
Run ID:	NLE_D_quick
Task:	Document Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	Yes
Dense retrieval?	No
Used deep nn model?	Pre-trained model
Type of training:	Previous year's MS MARCO training data
Pre-processing/indexing cost:	1 day on 4V100 for indexing. Index takes ~100 GB after finished. Index is then used only on CPU
Query processing cost:	First stage ranker takes around 500 ms per query on 4 cpus. No gpus are used during query processing

Overall measures		Document Level Averages	
Number of topics	57		Precision
Total number retrieved	5700	At 5 docs	0.8035
Total relevant	8203	At 10 docs	0.7702
Total relevant retrieved	2083	At 15 docs	0.7135
MAP	0.2198	At 20 docs	0.6763
Mean NDCG@10	0.6015	At 30 docs	0.6099
Mean Reciprocal Rank	0.9024	R-Precision	
		Exact	0.2896

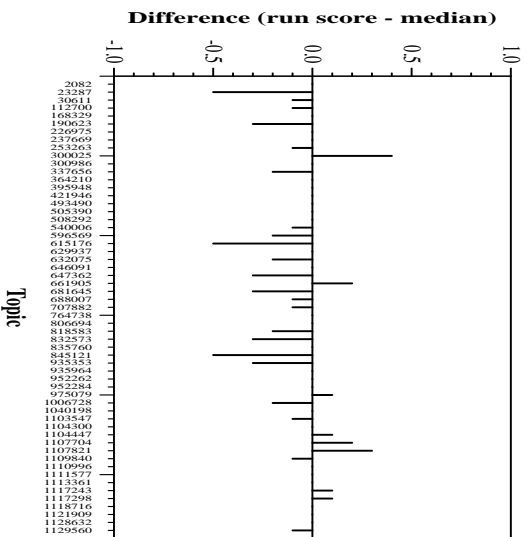




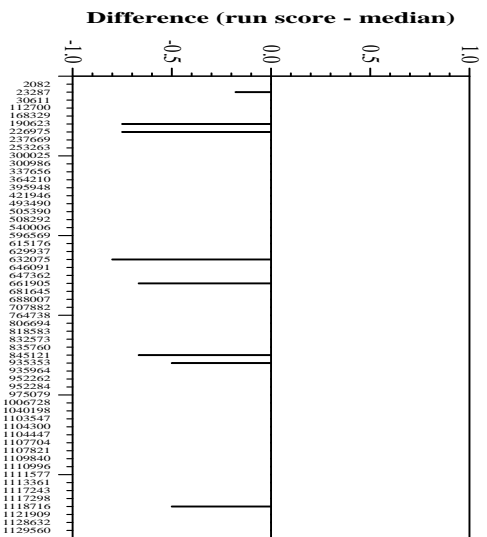
Per-topic difference from median for NDCG@10 for Document Ranking runs



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