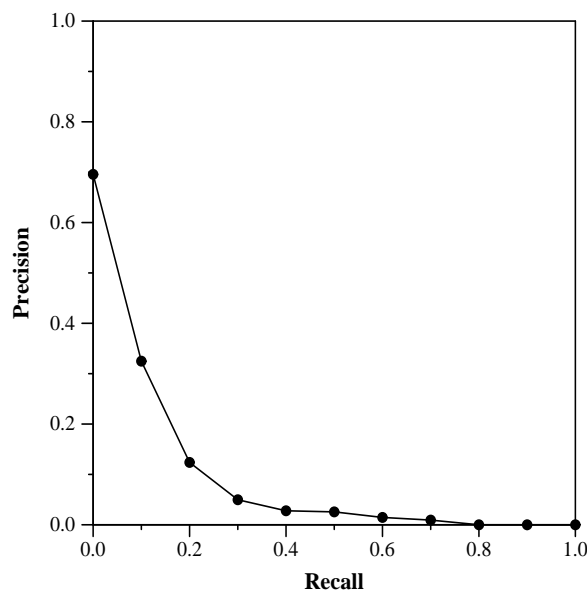
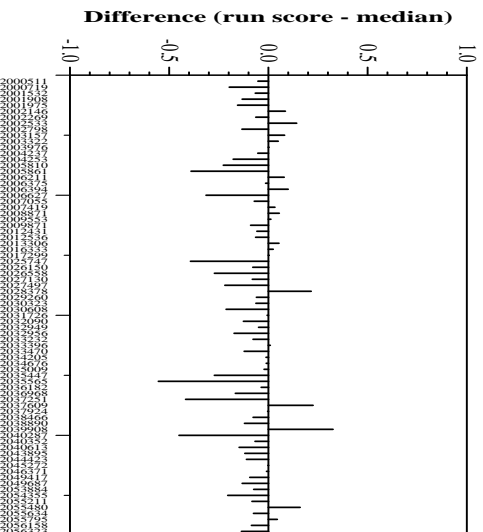


Deep Learning Track results — (CIP) Chinese Information Processing Lab

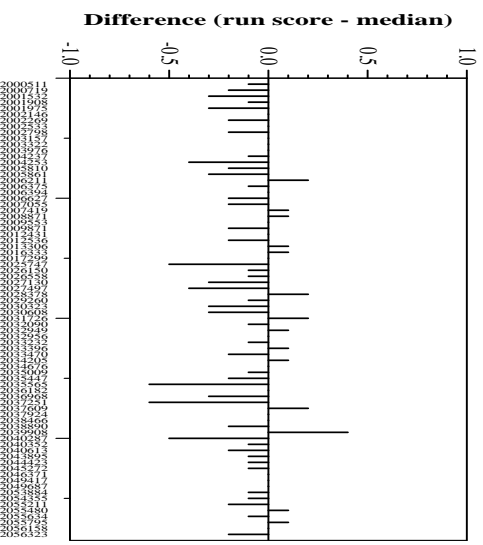
Run Description	
Run ID:	cip_r3
Task:	Passage Ranking
Subtask:	Reranking the official top 100
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	No
Baseline run?	No
Used deep nn model?	Pre-trained model
Type of training:	This year's MS MARCO training data; Previous year's MS MARCO training data
Training cost:	Cost 945 minutes for training in MS MARCO v2 on six NVIDIA TITAN RTX (24G) GPU. The total GPU minutes is 5670 minutes.
Pre-processing/indexing cost:	Cost 73 minutes for train dataset passage processing and indexing on six NVIDIA TITAN RTX (24G) GPUs. The total GPU minutes is 438 minutes.
Query processing cost:	Cost 1 minutes and 49 seconds on six NVIDIA TITAN RTX (24G) GPUs. The total GPU minutes is 11 minutes.

Overall measures		Document Level Averages	
Number of topics	76		Precision
Total number retrieved	6663	At 5 docs	0.3895
Total relevant	4613	At 10 docs	0.3342
Total relevant retrieved	520	At 15 docs	0.2693
MAP	0.0846	At 20 docs	0.2316
Mean NDCG@10	0.4549	At 30 docs	0.1754
Mean Reciprocal Rank	0.6471	R-Precision	
		Exact	0.1316

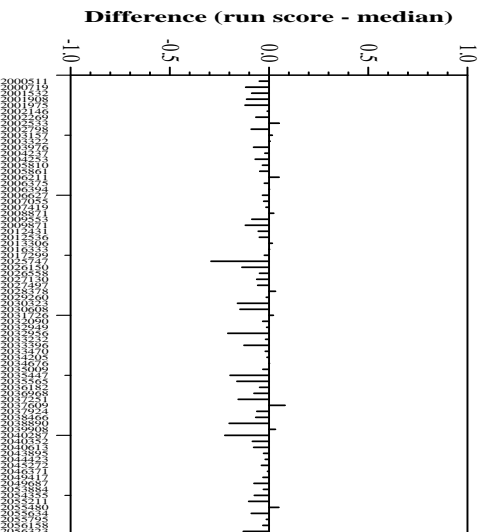




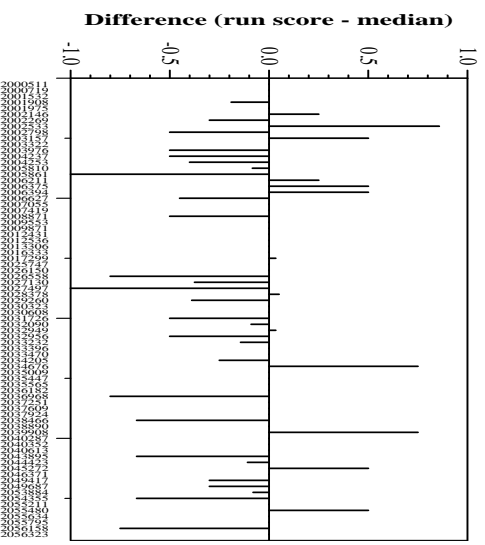
Per-topic difference from median for NDCG@10 for Passage Ranking runs



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



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



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