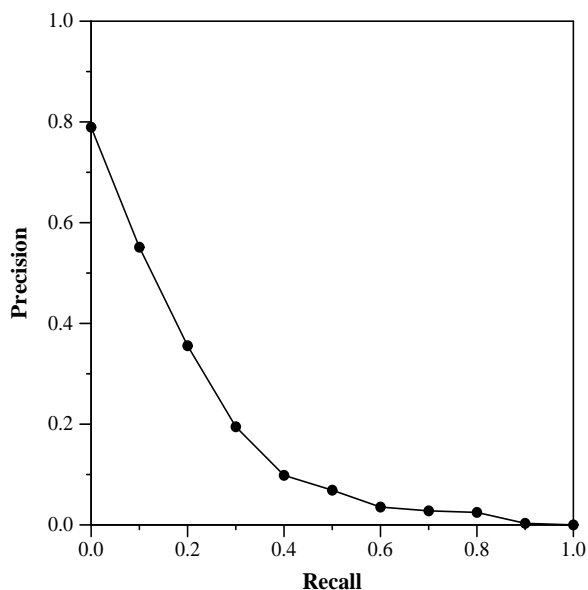
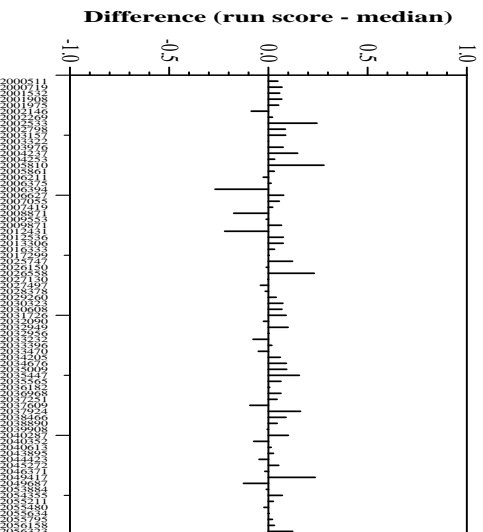


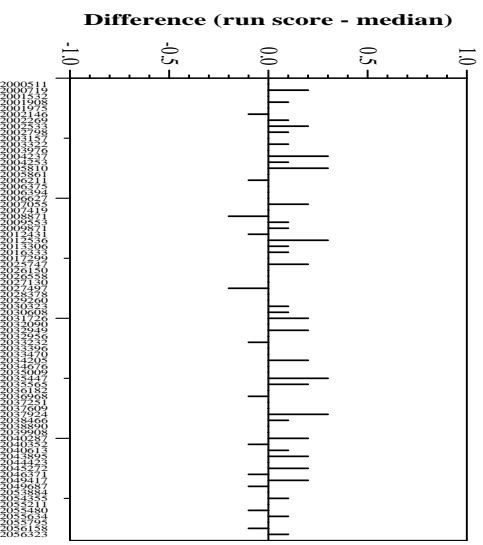
Run Description	
Run ID:	6systems
Task:	Passage Ranking
Subtask:	Full ranking from the collection
Topic type:	Automatic
Single-stage retrieval?	No
Dense retrieval?	Yes
Baseline run?	No
Used deep nn model?	Pre-trained model
Type of training:	This year's MS MARCO training data; Previous year's MS MARCO training data
Training cost:	Only GAT model's parameters were fine-tuned using the CLEF-IP2013 Passage Retrieval task dataset. Unicoil, Colbert, T5 and MiniLM use pre-trained models.
Pre-processing/indexing cost:	Colbert index was created using 2 GPU's in around 5 days.
Query processing cost:	Reranking with T5 and MiniLM-L12 model is done on the fly, reranking using GAT and Colbert is described in Albarede et al.: A Passage Retrieval on Structured Documents Using Graph Attention Networks, ECIR 2022.

Overall measures		Document Level Averages	
Number of topics	76		Precision
Total number retrieved	6825	At 5 docs	0.5579
Total relevant	4613	At 10 docs	0.4868
Total relevant retrieved	1111	At 15 docs	0.4281
MAP	0.1660	At 20 docs	0.3809
Mean NDCG@10	0.5672	At 30 docs	0.3154
Mean Reciprocal Rank	0.7266	R-Precision	
		Exact	0.2327

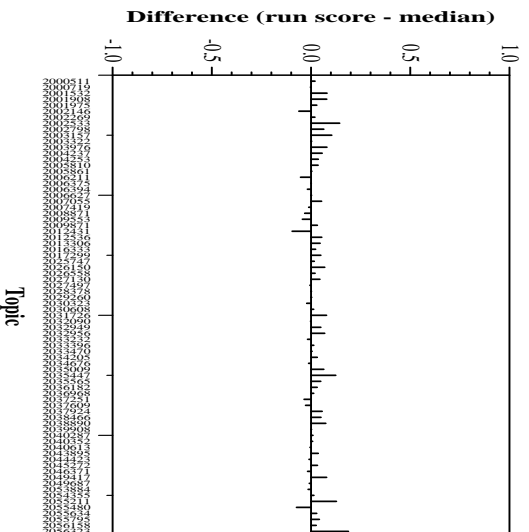




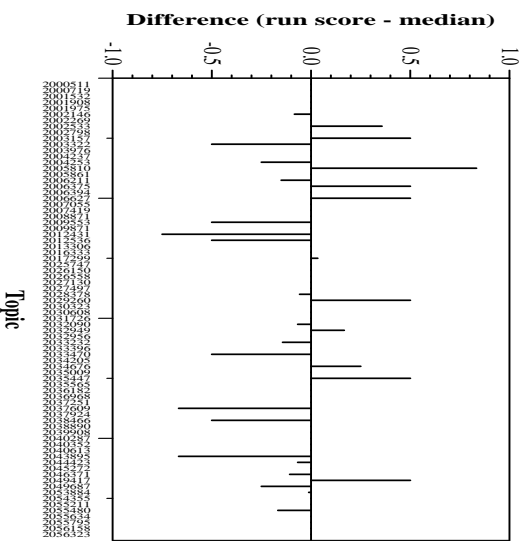
Per-topic difference from median for NDCG@10 for Passage Ranking runs



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