

**Round 4 results — Run BITEM\_BERT4 submitted from BITEM**

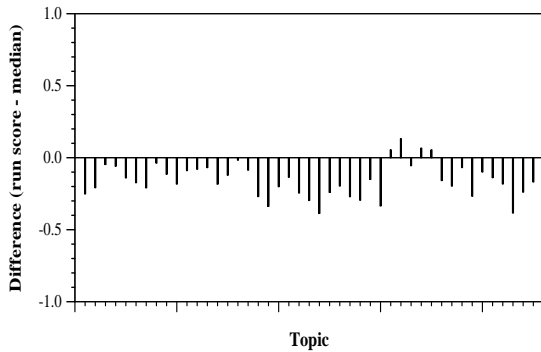
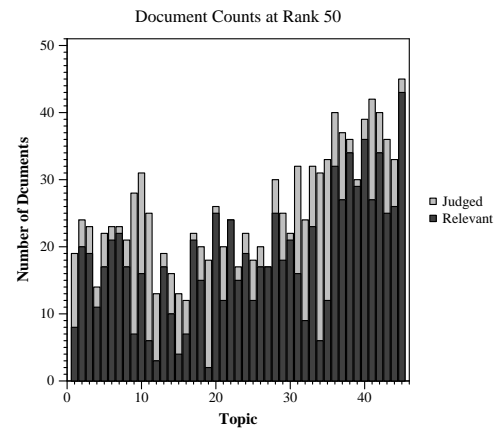
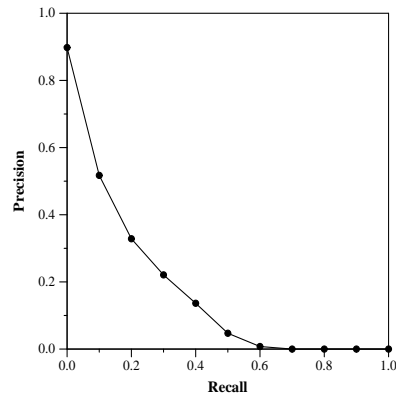
**Run Description**

Reranking of ES search (10k entries / query) using ROBERTA

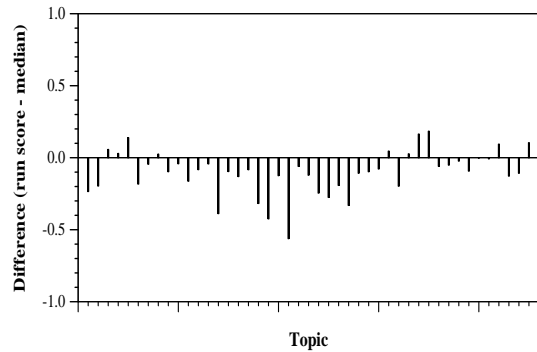
| Summary Statistics            |             |
|-------------------------------|-------------|
| Run ID                        | BITEM_BERT4 |
| Topic type                    | automatic   |
| Contributed to judgment sets? | yes         |

| Overall measures         |                |
|--------------------------|----------------|
| Number of topics         | 45             |
| Total number retrieved   | 38067          |
| Total relevant           | 5824           |
| Total relevant retrieved | 2495           |
| MAP                      | 0.1662         |
| Mean Bpref               | 0.3602         |
| Mean NDCG@20             | 0.5274         |
| Mean RBP(p=0.5)          | 0.6700 +0.0160 |

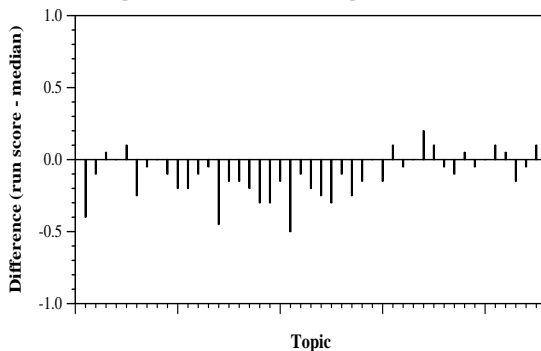
| Document Level Averages |           |
|-------------------------|-----------|
|                         | Precision |
| At 5 docs               | 0.7378    |
| At 10 docs              | 0.6511    |
| At 15 docs              | 0.5911    |
| At 20 docs              | 0.5444    |
| At 30 docs              | 0.4667    |
| R-Precision             |           |
| Exact                   | 0.2376    |



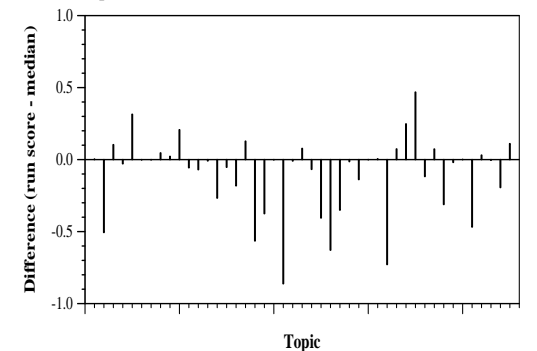
Per-topic difference from median bpref for all Round 4 runs



Per-topic difference from median NDCG@20 for all Round 4 runs



Per-topic difference from median P@20 for all Round 4 runs



Per-topic difference from median RBP(p=0.5) for all Round 4 runs