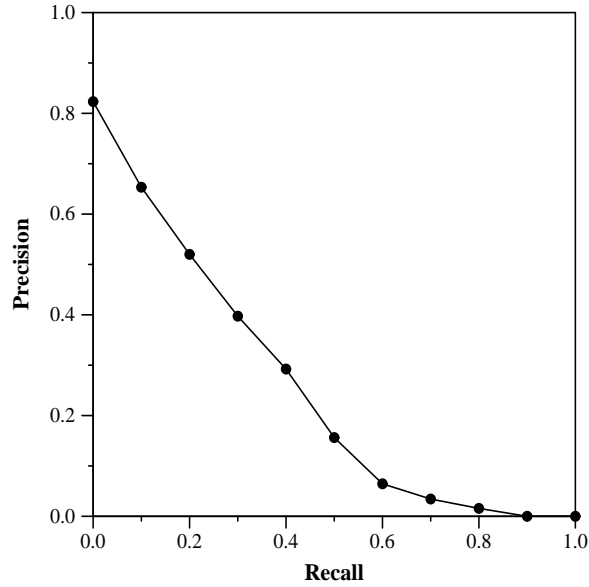
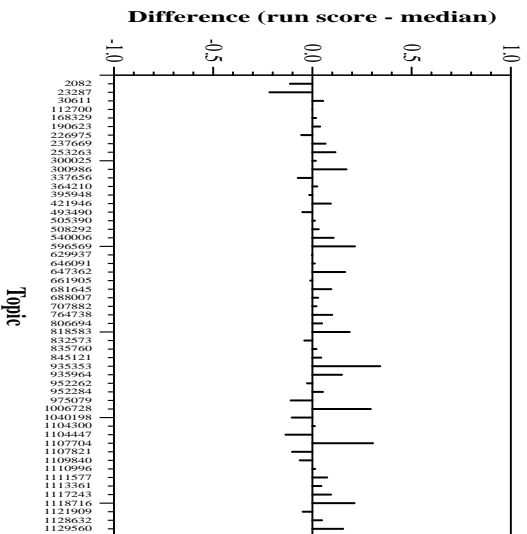


Deep Learning Track results — (ALIBABA) Alibaba Group

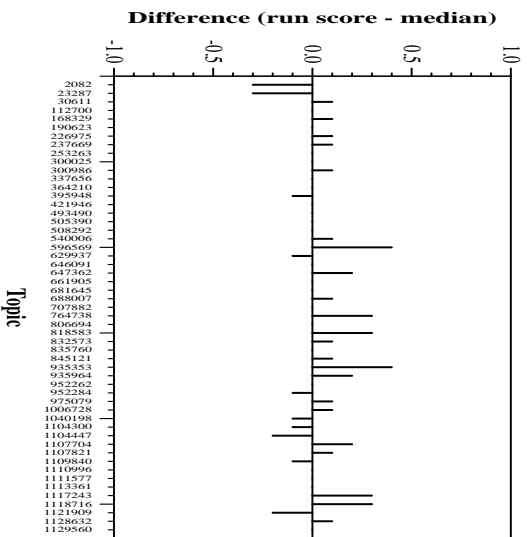
| Run Description               |                                    |
|-------------------------------|------------------------------------|
| Run ID:                       | pass_full_1000                     |
| Task:                         | Passage Ranking                    |
| Subtask:                      | Full ranking from the collection   |
| Topic type:                   | Automatic                          |
| Single-stage retrieval?       | No                                 |
| Dense retrieval?              | Yes                                |
| Used deep nn model?           | Pre-trained model                  |
| Type of training:             | This year's MS MARCO training data |
| Pre-processing/indexing cost: | -1                                 |
| Query processing cost:        | -1                                 |

| Overall measures         |        | Document Level Averages |           |
|--------------------------|--------|-------------------------|-----------|
| Number of topics         | 53     |                         | Precision |
| Total number retrieved   | 5300   | At 5 docs               | 0.6264    |
| Total relevant           | 3427   | At 10 docs              | 0.5491    |
| Total relevant retrieved | 1117   | At 15 docs              | 0.5031    |
| MAP                      | 0.2413 | At 20 docs              | 0.4651    |
| Mean NDCG@10             | 0.6434 | At 30 docs              | 0.4044    |
| Mean Reciprocal Rank     | 0.7695 | R-Precision             |           |
|                          |        | Exact                   | 0.3101    |

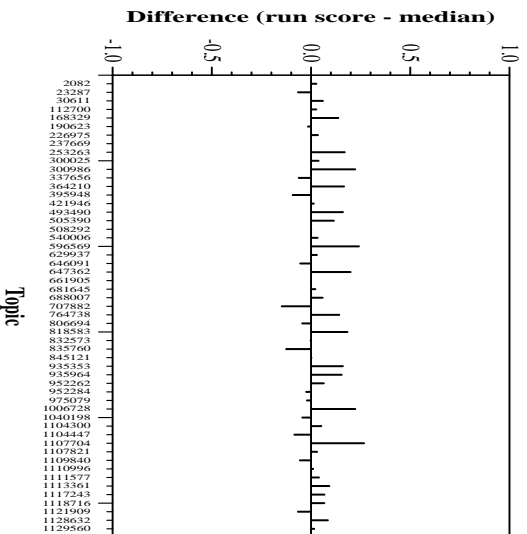




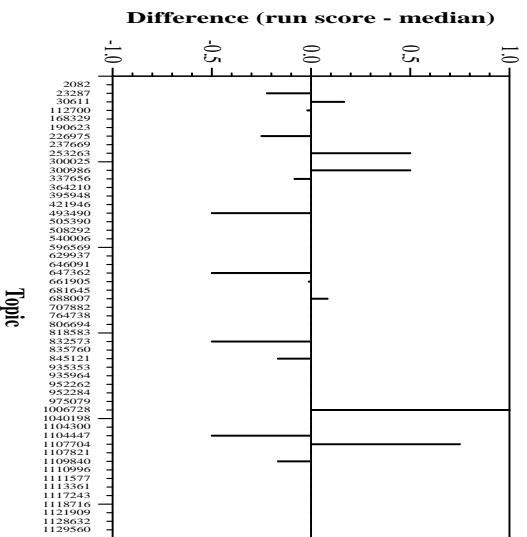
Per-topic difference from median for NDCG@10 for Passage Ranking runs



Per-topic difference from median for Precision 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