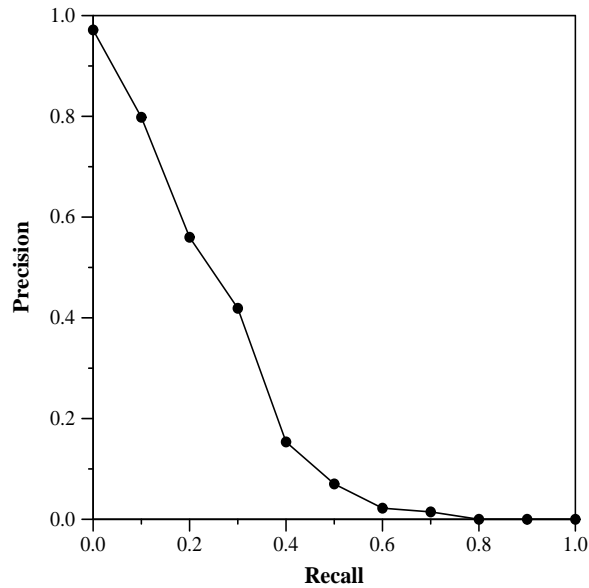
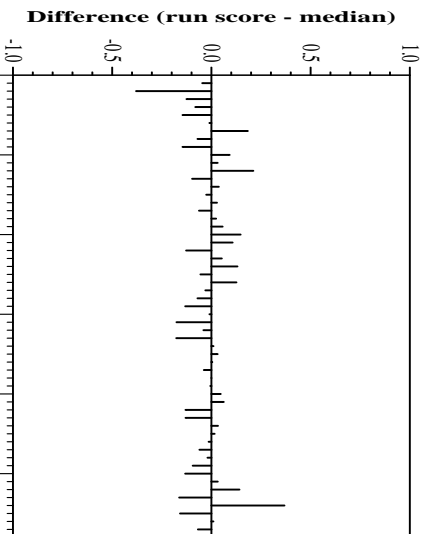


Deep Learning Track results — (ALIBABA) Alibaba Group

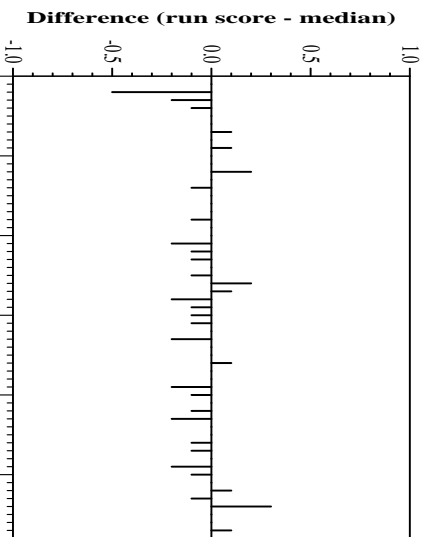
| Run Description               |                                    |
|-------------------------------|------------------------------------|
| Run ID:                       | doc_full_100                       |
| Task:                         | Document Ranking                   |
| Subtask:                      | 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         | 57     |                         | Precision |
| Total number retrieved   | 5700   | At 5 docs               | 0.8667    |
| Total relevant           | 8203   | At 10 docs              | 0.7930    |
| Total relevant retrieved | 2351   | At 15 docs              | 0.7216    |
| MAP                      | 0.2465 | At 20 docs              | 0.6746    |
| Mean NDCG@10             | 0.6414 | At 30 docs              | 0.6053    |
| Mean Reciprocal Rank     | 0.9308 | R-Precision             |           |
|                          |        | Exact                   | 0.3158    |

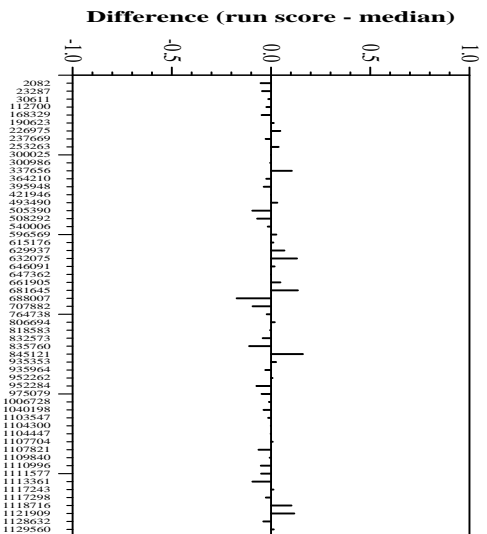




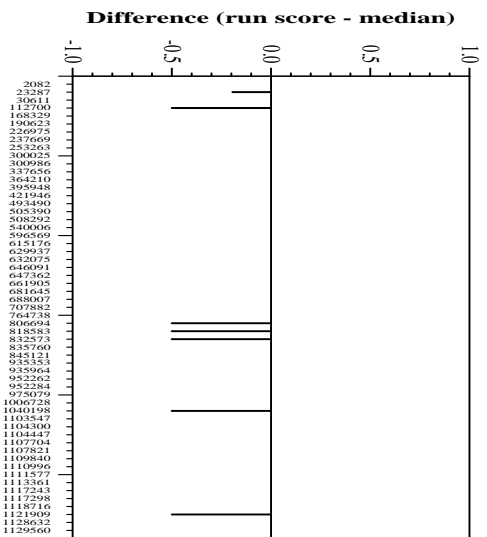
Per-topic difference from median for NDCG@10 for Document Ranking runs



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



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



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