

Round 1 results — Run yn-r1-concepttext submitted from NL_CCHMC

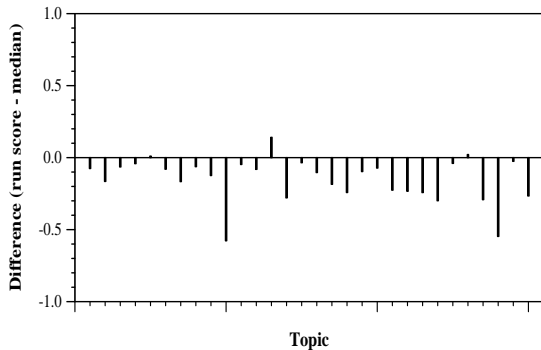
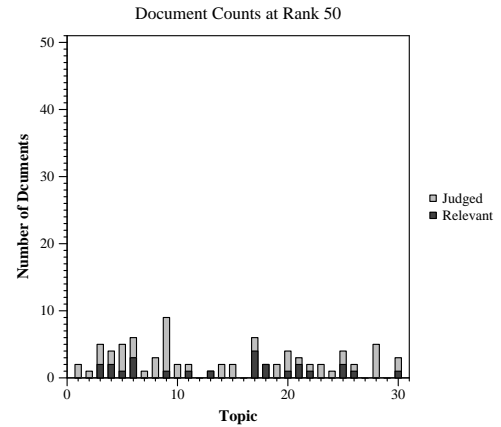
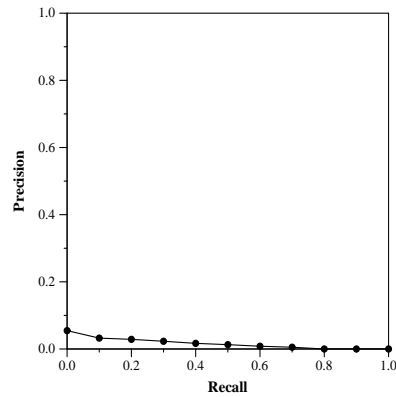
Run Description

In our earlier research we assembled state-of-the-art natural language processing (NLP), information retrieval, and machine learning technologies and developed an automated clinical trial eligibility screener. The system identifies and transforms relevant words or phrases (e.g., diseases, medications, procedures) in an article to medical terms using clinical terminologies including UMLS, SNOMED-CT, RxNorm and CPT codes. Assertion detection is then applied to convert the terms to the corresponding format. Finally, the system matches query terms manually derived from a topic with the extracted medical terms to identify relevant articles for the topic. Reference: Ni Y, Kennebeck S, Dexheimer JW, et al. Automated clinical trial eligibility prescreening: increasing the efficiency of patient identification for clinical trials in the emergency department. J Am Med Inform Assoc. 2014; 21(5):776-784.

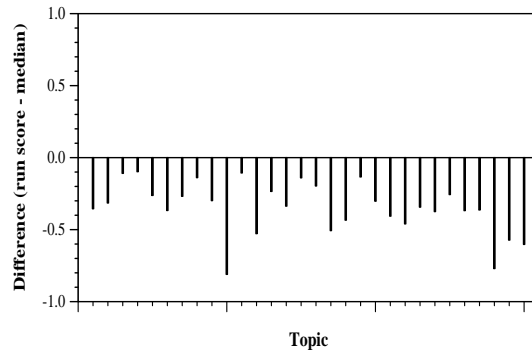
| Summary Statistics | |
|-------------------------------|-------------------|
| Run ID | yn-r1-concepttext |
| Topic type | manual |
| Contributed to judgment sets? | no |

| Overall measures | |
|--------------------------|--------|
| Number of topics | 30 |
| Total number retrieved | 30000 |
| Total relevant | 2352 |
| Total relevant retrieved | 890 |
| MAP | 0.0101 |
| Mean Bpref | 0.1755 |
| Mean NDCG@10 | 0.0099 |

| Document Level Averages | |
|-------------------------|-----------|
| | Precision |
| At 5 docs | 0.0067 |
| At 10 docs | 0.0167 |
| At 15 docs | 0.0156 |
| At 20 docs | 0.0150 |
| At 30 docs | 0.0167 |
| R-Precision | |
| Exact | 0.0163 |

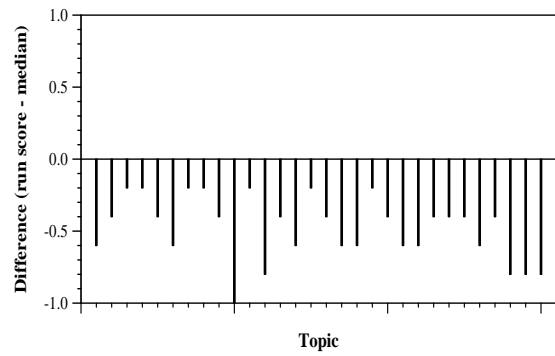


Per-topic difference from median bpref for all Round 1 runs



Per-topic difference from median NDCG@10 for all Round 1 runs

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Per-topic difference from median P@5 for all Round 1 runs