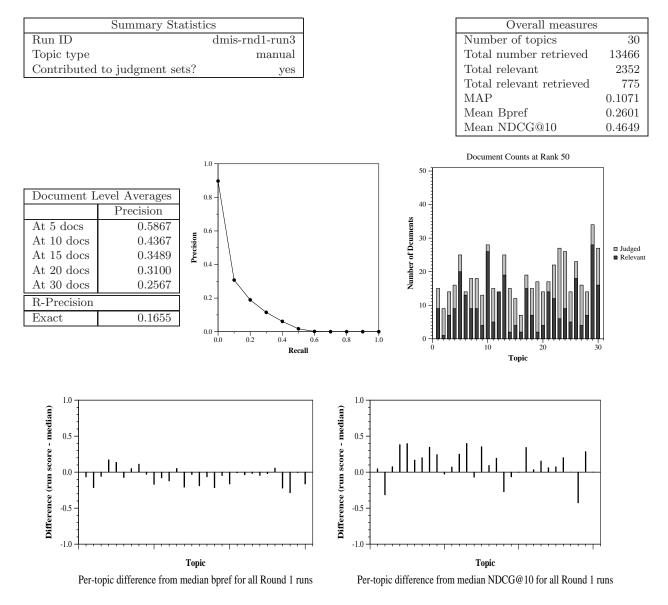
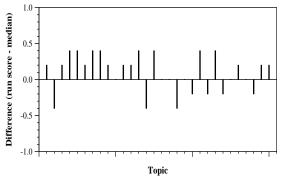
## Round 1 results — Run dmis-rnd1-run3 submitted from KoreaUniversity\_DMIS

## **Run Description**

We mainly used covidAsk (https://covidask.korea.ac.kr), a real-time QA system based on DenSPI [1] for the submission. While the initial purpose of the system was to give answers to natural questions in fine-grained phrases, covidAsk implicitly performs IR as documents that contain correct answer phrases can be regarded as relevant. For this submission, we used only subsets of CORD-19 documents that contain synonyms of 'COVID-19' in their titles or abstracts. This gave us about 3K documents from which we indexed about 800K phrase vectors. As our document representation of each phrase was too simple (BM25), we also combined document scores from Covidex [2]. We found the hyperparameters with our small validation set (100 QA pairs) and chose between 'question' and 'query' in each topic manually as an input to DenSPI trained on SQuAD (Dense-First Search) or SQuAD+NaturalQuestions (Hybrid Search), respectively. Also we manually modified typos and ambiguity in queries. [1] Real-Time Open-Domain Question Answering with Dense-Sparse Phrase Index, Seo et al., 2019 [2] Rapidly Deploying a Neural Search Engine for the COVID-19 Open Research Dataset: Preliminary Thoughts and Lessons Learned, Zhang et al., 2020



Round 1 results — Run dmis-rnd1-run3 submitted from KoreaUniversity\_DMIS



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