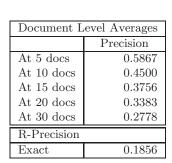
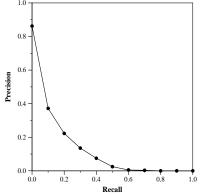
Run Description

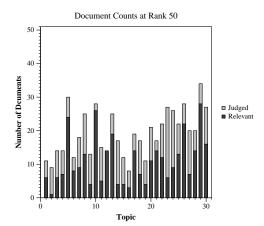
We mainly used covidAsk (https://covidask.korea.ac.kr), a real-time QA system based on DenSPI [1], for the submission. While the initial purpose of the system was to give answers to natural questions in fine-grained phrases, covidAsk implicitly performs IR as documents that contain correct answer phrases 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 approximately 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 used 'question' in each topic with DenSPI trained on SQuAD (Dense-First Search). [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

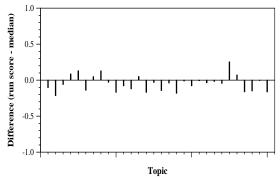
Summary Statistics	
Run ID	dmis-rnd1-run1
Topic type	automatic
Contributed to judgment sets?	no

Overall measures		
Number of topics	30	
Total number retrieved	13824	
Total relevant	2352	
Total relevant retrieved	826	
MAP	0.1202	
Mean Bpref	0.2791	
Mean NDCG@10	0.4467	

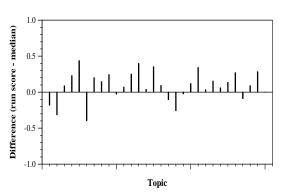




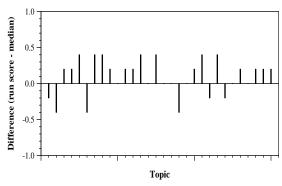








Per-topic difference from median NDCG@10 for all Round 1 runs



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