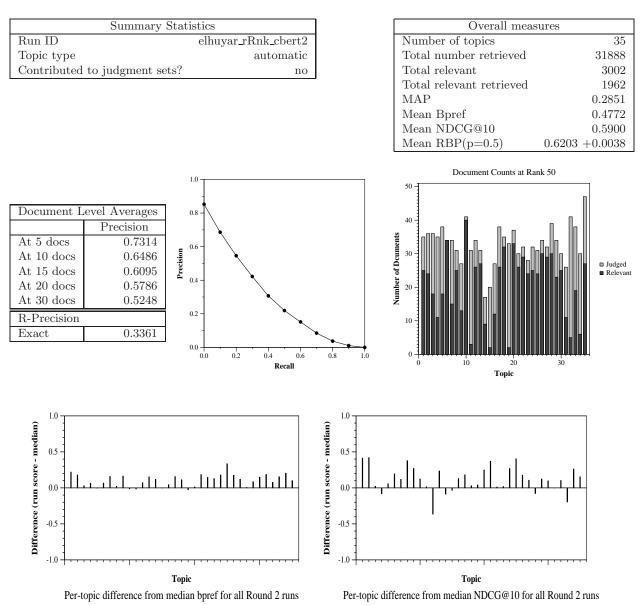
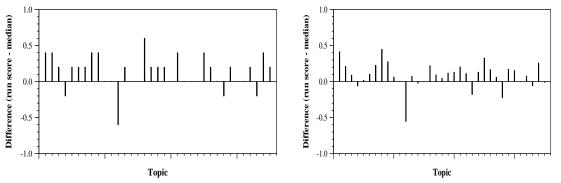
Round 2 results — Run elhuyar_rRnk_cbert2 submitted from Elhuyar_NLP_team

Run Description

We tackle this document retrieval task in two steps: a) a first ranking and b) re-ranking. In order to obtain the first ranking of relevant documents of the collection corresponding to the queries, we use a language modeling based information retrieval approach (Ponte & Croft, 1998) including pseudo relevance feedback. For that purpose, we used the Indri search engine (Strohman, 2005), which combines Bayesian networks with language models. Then, we make a re-ranking based on BERT following a strategy similar to the one proposed by Nogueira and Cho (2019). As we do not have a collection of query pairs and relevant abstracts for tuning BERT for this passage retrieval task, we simulate a training collection composed of titles and their corresponding abstracts from the COVID-19 Open Research dataset. Through this training collection we tuned the Clinical BERT model (Alsentzer et al., 2019) to the task of identifying relevant queries and abstracts. Indri and Tuned Clinical BERT scores are linearly combined and re-ranking is performed according to that new score. In this run we use weights of 0.8 and 0.2 for Indri and Clinical BERT scores respectively.



Round 2 results — Run elhuyar_rRnk_cbert2 submitted from Elhuyar_NLP_team



Per-topic difference from median P@5 for all Round 2 runs

Per-topic difference from median RBP(p=0.5) for all Round 2 runs