Abstract
The YUILA team participated in the Japanese subtask of the NTCIR-12 Short Text Challenge task. We used the external dialogue log corpus. In the test run, this approach (Run2) performed far worse than the baseline (Run1). Therefore we implemented an additional experiment (Run5). The additional experiment performed much better than the first experiment but still worse than the baseline.

Method

Our approach is the use of the existing post and response relationship between texts. We used the chat dialogue corpus [1] that has been created by recording the utterance logs between users and a dialogue system.

To calculate similarities between texts in documents, we employed tfidf weighting on characters to create feature vectors, and a cosine similarity as scores.

The procedure of the proposed method (Run2) is as follows:
(1) Select most similar human's post in the corpus to input tweet.
(2) Focus on system's response to the human's post.
(3) Select most similar tweet as an output from candidate tweets to the response.

Baseline (Run1) selects most similar tweet as an output to the input tweet.

Discussion

Additional run (Run5) used human's responses instead of often irrelevant system's response. The procedure is as follows:
(1) Select most similar system's post in the corpus to input tweet.
(2) Focus on human's response to the system's post.
(3) Select most similar tweet as an output from candidate tweets to the response.

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