A SYSTEM, METHOD AND COMPUTER READABLE MEDIUM FOR IMPROVING RECOGNITION AND PERFORMANCE OF VOICEBOT USING A TEXT TO SPEECH (TTS) MODEL

ABSTRACT

A system, method and computer readable medium for improving recognition and performance of a voicebot using a Text To Speech (TTS) model is disclosed. The missing vocabulary of an Automatic Speech Recognition (ASR) model is obtained by comparing a training data of the ASR model and a training data of a Natural-Language Understanding (NLU) model. A web crawler is used for searching the World Wide Web using the missing vocabulary data of the ASR model and the TTS model is used to convert the data from the web crawler into speech data. The training data formed by the web crawler, the speech data and the training data of the ASR model is used as training data to increase the vocabulary of the ASR model. To enhance the fault tolerance of NLU model on the ASR output, the text output of the ASR model is used to train the NLU model.

FIG. 1 accompanies the abstract.