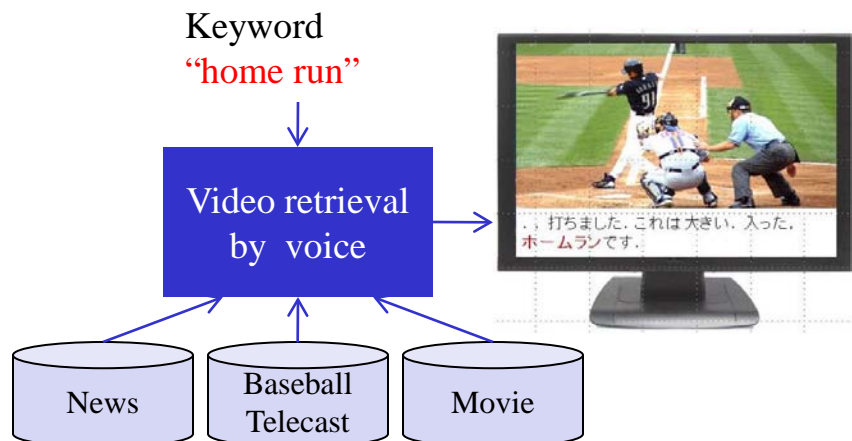
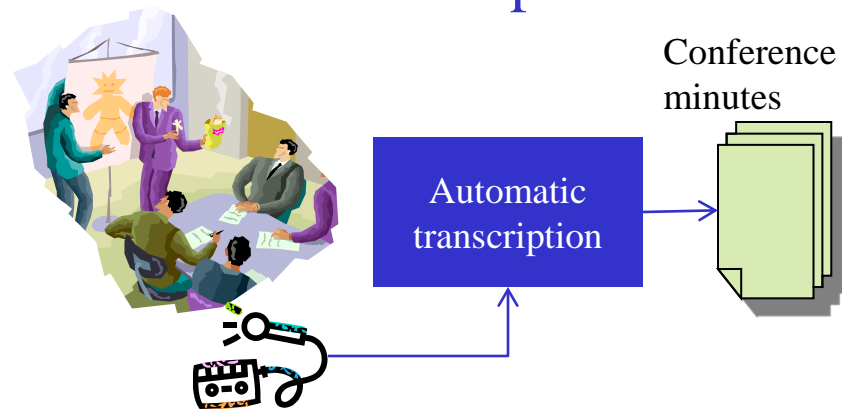


Speech-based retrieval



Automatic transcription



Content:

High recognition accuracy has been achieved for read speech with a large vocabulary continuous speech recognition (LVCSR) system. The recognition accuracy higher than 95% has been reported using the state-of-the-art speech recognition system. However, it is well known that the performance for spontaneous speech recognition is rather poor. Compared with read speech, spontaneous speech has repairs, hesitations, filled pauses, unknown words, unclear pronunciation, and so on, and those phenomenon cause poor performance. In order to improve the recognition performance of spontaneous speech, we develop more accurate acoustic and language models which are suitable for spontaneous speech.

Speech recognition can be used in various applications, such as speech-based retrieval, automatic transcription of conference minutes, and so on.

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