

ABSTRACT

The present invention discloses an audio and subtitle synchronization method based on audio translation and similarity calculation. The start and stop positions of each paragraph of a source text in a translated text are determined by matching the source text with the translated text in paragraphs, in such a way, a timeline range of the source text in an audio can be obtained, and then a purpose of matching the source text with a corresponding timeline in the audio will be achieved. According to the present invention, the timeline of the audio may be further mapped to the source text by matching the translated text of the audio with the source text, which ensures the accuracy of the texts and may guarantee that the source text has the function of the timeline; and text translation may be performed by use of an open-source model and without using high-precision models, which reduces training samples and time for model training and a great amount of resources, and saves the cost of development.

[Fig. 1]