CLAIMS

1. A video stream sending method, wherein, it is applied to a relay device and comprises:

obtaining a first video stream, wherein, the first video stream comprises image data and audio data;

recognizing a speech in the audio data to obtain speech text; translating the speech text into subtitle text in at least one preset language;

creating a second video stream based on the first video stream;

adding the subtitle text in at least one preset language to the second video stream to obtain a video stream containing the subtitle text;

sending the video stream containing the subtitle text to a client to enable the client to obtain subtitle text in a target preset language from the subtitle text in at least one preset language and render it for display;

wherein, creating the second video stream based on the first video stream, comprises:

receiving a subtitle switching request sent by the client;

in response to the subtitle switching request, creating the second video stream based on the first video stream; or

receiving a subtitle switching request sent by the client;

in response to the subtitle switching request, sending the video stream containing the subtitle text to the client to enable the client to obtain subtitle text in a target preset language from the subtitle text in the at least one preset language and render it for display.

2. The method of claim 1, wherein, adding the subtitle text in at least one preset language to the second video stream to obtain a video stream containing the subtitle text, comprises:

adding the subtitle text in at least one preset language to the second video stream, by means of Supplemental Enhancement Information SEI, to obtain the video stream containing the subtitle text.

3. The method of claim 1, wherein, recognizing a speech in the audio data to obtain

speech text, comprises:

recognizing the speech in the audio data to obtain at least one line and a time stamp corresponding to each line;

wherein translating the speech text into subtitle text in at least one preset language comprises:

translating the at least one line to obtain subtitle text in at least one preset language corresponding to each line and a corresponding time stamp.

4.The method of claim 3, wherein, sending the video stream containing the subtitle text to a client to enable the client to obtain subtitle text in a target preset language from the subtitle text in at least one preset language and render it for display, comprises:

sending the video stream containing the subtitle text to a client to enable the client to obtain subtitle text in a target preset language from the subtitle text in at least one preset language and render the subtitle text in the target preset language for display based on a time stamp corresponding to the subtitle text in the target preset language.

5. The method of claim 1, wherein, obtaining the first video stream comprises:

obtaining a live video stream, wherein, the live video stream is in a Real-Time Messaging Protocol RTMP format or a web video HLV format.

6. The method of claim 1, wherein, recognizing a speech in the audio data to obtain speech text, comprises:

recognizing the speech in the audio data, by means of Automatic Speech Recognition ASR, to obtain the speech text;

wherein translating the speech text into subtitle text in at least one preset language comprises:

translating the speech text into the subtitle text in at least one preset language by means of a preset machine translation tool.

7. A video stream sending system, wherein the system comprises a relay device and a client;

the relay device being configured to obtain a first video stream, wherein, the first video

stream comprises image data and audio data; recognize a speech in the audio data to obtain speech text; translate the speech text into subtitle text in at least one preset language; create a second video stream based on the first video stream; add the subtitle text in at least one preset language to the second video stream to obtain a video stream containing the subtitle text; send the video stream containing the subtitle text to the client;

the client being configured to receive the video stream containing the subtitle text; parse the video stream containing the subtitle text to obtain the subtitle text in at least one preset language; identify subtitle text in a target preset language from the subtitle text in at least one preset language based on subtitle selection information; and render the subtitle text in the target preset language for display;

wherein, the relay device is specifically configured to receive a subtitle switching request sent by the client; and in response to the subtitle switching request, create the second video stream based on the first video stream; or

the relay device is specifically configured to receive a subtitle switching request sent by the client; and in response to the subtitle switching request, send the video stream containing the subtitle text to the client to enable the client to obtain subtitle text in a target preset language from the subtitle text in at least one preset language and render it for display.

8. The system according to claim 7, wherein,

the relay device is specifically configured to add the subtitle text in at least one preset language to the second video stream, by means of Supplemental Enhancement Information SEI, to obtain the video stream containing the subtitle text.

9. The system according to claim 7, wherein,

the relay device is specifically configured to recognize a speech in the audio data to obtaining at least one line and a time stamp corresponding to each line; translate the at least one line to obtain subtitle text in at least one preset language corresponding to each line and a corresponding time stamp.

10. The system according to claim 7, wherein,

the relay device is specifically configured to obtain a live video stream, wherein, the live video stream is in a Real-Time Messaging Protocol RTMP format or a web video HLV

format.

11. The system according to claim 7, wherein,

the relay device is specifically configured to recognize a speech in the audio data, by means of Automatic Speech Recognition ASR, to obtain the speech text; translate the speech text into subtitle text in at least one preset language by means of a preset machine translation tool.

12. The system according to claim 7, wherein,

the client is specifically configured to receive the subtitle selection information sent by the client; or, obtain geographical location information of the client; determine the subtitle selection information according to the obtained geographical location information.

13. The system according to claim 7, wherein, the subtitle text in at least one preset language contains a time stamp corresponding to the subtitle text;

the client is specifically configured to render the subtitle text in the target preset language for display based on the time stamp corresponding to the subtitle text.

14. An electronic device comprising a processor, a communication interface, a memory and a communication bus, wherein the processor, the communication interface and the memory communicate with each other through the communication bus;

the memory is configured to store a computer program;

the processor is configured to perform the method according to any of claims 1-6.

15. A computer readable storage medium having a computer program stored therein, wherein the computer program, when executed by a processor, causes the processor to perform the method according to any of claims 1-6.