CLAIMS

1. A computer-implemented method comprising:

receiving audio streams captured by a plurality of distributed devices;

comparing the audio streams captured by the plurality of devices to determine whether the audio streams are representative of sound from a same meeting, wherein the sound has an audio signature, the audio signature comprises an audio watermark generated by one or more of the distributed devices and having a sound that is inconspicuous to the user to cause a distributed device within range of the audio watermark to be added to a meeting instance;

based on the comparing indicating the audio streams are representative of sound from the same meeting, establishing the meeting instance for the meeting;

identifying a user corresponding to a distributed device of the plurality of distributed devices in the meeting;

determining a preferred language of the user;

generating, by a hardware processor, a transcript from the received audio streams as the meeting is occurring;

translating the transcript into the preferred language of the user to form a translated transcript as the meeting is occurring; and

providing the translated transcript to the distributed device as the meeting is occurring.

2. The method of claim 1, wherein providing the translated transcript comprises providing the transcript with translated text for display on the distributed device as the meeting is occurring.

3. The method of claim 2, wherein providing the translated transcript comprises converting text of the translated transcript to speech for output to the user of the distributed device as the meeting is occurring.

4. The method of any preceding claim, wherein providing the translated transcript comprises providing speaker identities for each translated utterance of the transcript.

5. The method of any preceding claim, wherein the determining the preferred language of the user comprises accessing a user preference previously established for the user indicating the preferred language.

6. The method of any preceding claim, wherein comparing the audio streams captured by the plurality of devices to determine that the audio streams are representative of sound from the same meeting comprises:

calculating normalized cross correlation coefficients between signals of the audio streams; and

determining whether a predetermined threshold is transgressed, wherein the predetermined threshold being transgressed indicates that the audio streams are representative of sound from the same meeting.

7. The method of any preceding claim, further comprising:

performing continuous speech separation on the received audio streams from the plurality of distributed devices to separate speech from different speakers speaking at the same time into separate audio channels, the generating the transcript being based on the separated audio channels.

8. The method of any preceding claim, wherein identifying the user comprises:

receiving a video signal capturing the user; and

matching a stored image of the user with the video signal to identify the user.

9. The method of any preceding claim, wherein identifying the user comprises:

matching a stored voice signature of the user with speech from the audio streams.

10. The method of any preceding claim, wherein identifying the user comprises:

obtaining a user identifier associated with the distributed device.

11. The method of any preceding claim, wherein the sound that is inconspicuous to the user comprises a sound pattern having a frequency above the normal hearing range of the user.

12. The method of claim 11, wherein the frequency is 20kHz or higher.

13. A machine-readable medium storing instructions that when executed by one or more hardware processors of a machine, cause the machine to carry out the method of any preceding claim.

14. A device comprising:

one or more hardware processors; and

a memory device coupled to the one or more hardware processors and having a program stored thereon that, when executed by the one or more hardware processors, causes the one or more hardware processors to carry out the method of any one of claims 1 to 12.