

ABSTRACT

AUDIO SIGNAL PROCESSING METHOD, DEVICE, SYSTEM, AND STORAGE MEDIUM

An audio signal processing method, system, terminal device, conference device, teaching device, intelligent vehicle-mounted device, server device, and computer-readable storage medium. The method comprises: obtaining current audio signals acquired by a microphone array, the microphone array comprising at least two microphones (101a); generating, according to phase difference information of the current audio signals acquired by the at least two microphones, current sound source spatial distribution information corresponding to the current audio signals (102a); and according to the current sound source spatial distribution information, in combination with the conversion relationship between single speech and overlapping speech learned on the basis of historical audio signals, identifying whether the current audio signals are overlapping speech (103a). Compared with single-channel audio, the audio signals acquired by the microphone array are used, and the sound source spatial distribution information is included, thus, the techniques of the present application accurately identify whether the current audio signals are overlapping speech, thereby satisfying the detection requirement for a product level.

Figure 1A