

AISHELL, set a artificial democratization as the goal.

AISHELL is an innovation technology enterprises focusing on artificial intelligence big data and technical services, including voice recognition, voice synthesis, voiceprint recognition, audio retrieval technology.

AISHELL currently do data innovation and differentiated services program, aiming at producing accurate data set for homes, cars, robots according the application needs for the specialized scene. Using machine learning platform, we established a leading core technology system in the voice data evaluation, auxiliary transfer, data analysis, and further expand the integration of technology, big data and IOT.

AISHELL' s vision: With ideology of open data, data exchange, data production program innovation, to accomplish artificial intelligence democratization.

Core technology

The technical staff of the industry frontier, intelligent instead of manpower, improve data quality



Voice data source quality evaluation system

Fast and accurate evaluation of voice signal amplitude, noise, transfer error rate determination, phoneme balance calibration.



Automatic voice transfer system

Reduce manual assistance, tend to be intelligent, support for Mandarin and English voice.



Scene data set test system

Support widespread data set plus noise, multi-distance data reverberation performance test, support environment compliance test of vehicle data set and driving condition



Audio retrieval system

Auxiliary language source data classification makes it easy to handle massive data.

Open Source Data

Shared data to promote the development of artificial intelligence

AISHELL-1

178 Hours 400 speakers in the recording

Speech & Speaker Recognition

Merged with Kaldi system & Kaldi recipe

AISHELL-3

85 Hours 218 Speakers 88035 Utterances

Text-To-Speech (TTS) Systems

Open Source

AISHELL-2

1000 Hours 1991 Speakers in the recording

Speech & Speaker Recognition Evaluation

Merged with Kaldi system & Kaldi recipe

AISHELL-4

120 Hours 211 Meeting Sessions
10 Meeting Rooms 60 Speakers

Speech front-end processing
Speech Recognition & Speaker Diarization

Open Source

Smart Product Customization Data Program

Scene data, multimodal data, virtual reality scene data production scheme design, technical evaluation.

Simulating scene data customization, product evaluation design

Real scene noise

Recording real scene under multi-point at the same time, with close talking microphone plus the far-field enhanced microphone. The multiple application of intelligence voice scenarios cover family and public, including the living room, kitchen and toilet, office, industrial production, stations, roads and other.

Data customization

Personalized demand customization data.

Product evaluating design

Provide data configuration technology services, data quality assessment.
Provide quality assurance for data set production.

Autonomous Driving Data Program

A variety of speed combinations for real road conditions, complex scene corpus design, synchronous multi-channel recording.

Autonomous Driving Speech Corpus

Real car and road scene

A variety of road conditions
A variety of options
Complex scenes

Multi-Point recording

Voice Control

Details

Subject: Smart Car Data Corpus

Serial ID: AISHELL-ASR0011

#Recording Point: 5

Total Time: 750 Hours

#Speaker: 300

Language: Chinese

Area: China

Devices: High Fidelity Microphone

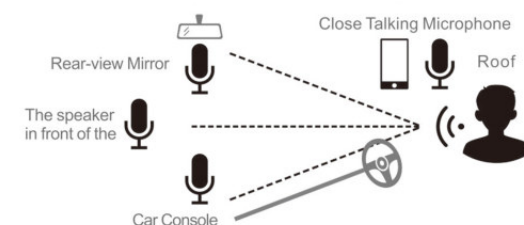
Android Phone 16000Hz 16bit

iOS Phone 16000Hz 16bit

Transcriptions are chosen from multi-field:

POI/Road Information/Map/wake up/Command/Control

Analog Recording Live



Subject: Smart Car Data Corpus (EV)

Serial ID: AISHELL-ASR0031

#Recording Point: 9

Total Time: 10000 Hours

#Speaker: 2000

Language: Chinese

Area: China

Devices: High Fidelity Microphone

Android Phone 16000Hz 16bit

iOS Phone 16000Hz 16bit

Smart Home Data Program

The real home scene multi-angle recording, high degree of product fit, covering smart home of the industry.

Smart Home Speech Corpus

Real Home Scene

Close Talking + Far-field

Smart Control

Details

Subject: Smart Home Data Corpus

Serial ID: AISHELL-ASR0010

#Recording Point: 7

Total Time: 1854 Hours

#Speaker: 646

Language: Chinese

Area: China

Devices: High Fidelity Microphone

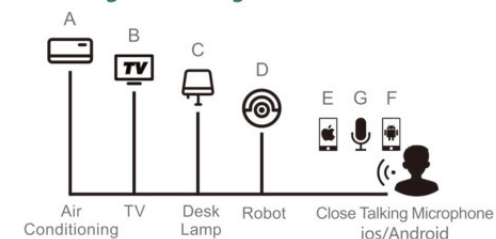
Android Phone 16000Hz 16bit

iOS Phone 16000Hz 16bit

Transcriptions are chosen from multi-field:

Wake up Home APP voice control: Amp/TV/Air conditioning/ Radio/light
TV movie/ Music/Command words/Numbers

Analog Recording Live



Subject: Smart Home Data Corpus (English)

Serial ID: AISHELL-ASR0020

#Recording Point: 4

Total Time: 400 Hours

#Speaker: 200

Language: English

Area: America

Devices: High Fidelity Microphone

AI Data Science Competition



INTERSPEECH2021 | ConferencingSpeech 2021

Introduction: Far-field Multi-Channel Speech Enhancement Challenge for Video Conferencing



IEEE SLT 2021 | Alpha-mini Speech Challenge (ASC)

Introduction: Keyword Spotting (KWS) Track; Sound Source Location (SSL) Track



INTERSPEECH2020 | Far-Field Speaker Verification Challenge

Introduction: Speaker verification is a key technology in speech processing and biometric authentication which has broad impact on our daily lives, e.g.

Partner

AI SHELL

Engaging in innovative changes in artificial intelligence data and technology.



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