Data Description

Basic Information

- **File Type**: flac
- **Sampling Rate**: 16000
- **Key**:

value	label
0	bonafide
1	spoof

Notice:

1. Since the models employed in our experiment were trained on the dataset Bisher/ASVspoof_2019_LA, the fundamental information of this dataset is identical to that of the aforementioned dataset.
2. In this dataset, due to the presence of audio recordings that are a combination of human-generated audio and AI-generated or cloned audio, we have designated a key value of 1 for all audio samples that incorporate AI audio elements. Conversely, for audio samples consisting solely of human-generated audio, the key value is set to 0.

Naming Format

```
Audio_<Sentence Index>_<Speaker Id>_<Audio Type>_<Sub Type>_<Combine Pattern>.flac
```

Args Explain

Sentence Index

- **Index Range**: [0, 103]
- **Definition**: The value within this index range represents the sequential number of a sentence within the reading material.

Speaker Id

- **Index Range**: [0, 13]
- **Definition**:
    - Indices ranging from 0 to 11 correspond to the 12 human participants in the dataset.
    - Index 12 is assigned to the male voiced audio directly generated by AI, while

- Index 12 is assigned to the male - voiced audio directly generated by AI, while index 13 is designated for the female - voiced audio directly generated by AI.

Audio Type

Index	Tag	Description
0	H	Real Human Audio
1	C	AI Cloned Audio
2	A	AI Generated Audio
3	Combined	Combined Audio

Sub Type

This index is exclusively applicable to combined audio (where the Audio Type is equal to 3) and AI generate audio(Audio Type = 1). For all other audio types, the value of this index shall be set to 0.

Index	Tag	Description
0	None	Not Specific Audio
1	C_0	AI Cloned Audio(Source = First Sentence)
2	C_1	AI Cloned Audio(Source = New Concept English Part)
3	C_2	AI Cloned Audio(Source = Full part)
4	C_3	AI Cloned Audio(Source = Current Sentence)
5	CH/HC	Combined Audio(AI Cloned(C_0) + Human)
6	CH/HC	Combined Audio(AI Cloned(C_1) + Human)
7	CH/HC	Combined Audio(AI Cloned(C_2) + Human)
8	CH/HC	Combined Audio(AI Cloned(C_3) + Human)
9	CA/AC	Combined Audio(AI Cloned(C_0) + AI Generated)
10	CA/AC	Combined Audio(AI Cloned(C_1) + AI Generated)
11	CA/AC	Combined Audio(AI Cloned(C_2) + AI Generated)
12	CA/AC	Combined Audio(AI Cloned(C_3) + AI Generated)

13	AH/HA	Combined Audio(AI Generated + Human)

Combine Pattern

Index	Combined Source Type	Pattern
000	None	None
010	Human + AI Cloned	HC
100	Human + AI Cloned	CH
020	Human + AI Generated (Male)	HA_0
200	Human + AI Generated (Male)	AH_0
021	Human + AI Generated (Female)	HA_1
201	Human + AI Generated (Female)	AH_1
120	AI Cloned + AI Generated (Male)	CA_0
210	AI Cloned + AI Generated (Male)	AC_0
121	AI Cloned + AI Generated (Female)	CA_1
211	AI Cloned + AI Generated (Female)	AC_1