

競賽測試集上傳須知

競賽說明

本次競賽共會提供兩筆測試集，第一筆測試集會在初賽開始時 (2021/05/10 12:00) 公布，共 10000 筆音檔，其預測成績會公布在 public leaderboard 上。第二筆測試集會在初賽結束前 (2021/06/08 12:00) 公布，共 20000 筆音檔，其預測成績會在比賽結束後隔天 (2021/06/11 12:00) 公布在 private leaderboard 上，晉級決賽之依據將以 private leaderboard 之排名以及繳交之審核資料為主。

測試集說明

測試集	數量	公佈日期	音檔資訊
第一筆測試集	10000	2021/05/10	單聲道 (Mono), 8kHz, 16 bits PCM, wav
第二筆測試集	20000	2021/06/08	單聲道 (Mono), 8kHz, 16 bits PCM, wav

上傳格式

上傳時需將測試之結果存成 submission.csv，需符合以下之格式

```
Filename,Barking,Howling,Crying,COSmoke,GlassBreaking,Other  
[Filename],[prob_0],[prob_1],[prob_2],[prob_3],[prob_4],[prob_5]
```

第一列依序為 Filename, Barking, Howling, Crying, COSmoke, GlassBreaking, Other。
從第二列開始為測試資料的檔名及各類別之預測機率，相加需等於1，順序與標籤順序相同 (Barking, Howling, Crying, COSmoke, GlassBreaking, Other)。以下為範例：

```
1 Filename,Barking,Howling,Crying,COSmoke,GlassBreaking,Other  
2 public_00001.wav,0.73,0.04,0.03,0.05,0.14,0.01  
3 public_00002.wav,0.03,0.01,0.01,0.06,0.88,0.01  
4 public_00003.wav,0.02,0.01,0.02,0.03,0.91,0.01  
5 public_00004.wav,0.02,0.01,0.02,0.03,0.91,0.01  
6 public_00005.wav,0.02,0.01,0.02,0.03,0.91,0.01  
7 public_00006.wav,0.02,0.01,0.02,0.03,0.91,0.01
```

評分方式

Prevalence-weighted average of Area under ROC (ROC AUC) for the multi-class problem (One-vs-rest)

$$\frac{1}{c(c-1)} \sum_{j=1}^c \sum_{k>j}^c p(j \cup k) (\text{AUC}(j|k) + \text{AUC}(k|j))$$

其中 c 為類別之總數，在此競賽中 $c = 6$

- Scheme 選擇 One-vs-rest，計算 AUC of each class against the rest。
- Average method 選擇 prevalence-weighted，會根據每個 label 的 true instance 數量計算權重。