

Ground-truth and files list

In this folder you can find the durations, ground truth and mapping file list for the different synthetic sets used in the paper “*A benchmark of state-of-the-art sound event detection systems evaluated on synthetic soundscapes*”.

The mapping is between the anonymized (official eval) file names and the files name as presented in the annotations.

Reference synthetic soundscapes evaluation set (Fig. 1-3 and Table 3 in [1]):

- *mapping_file_ntg.tsv* : mapping file list of the reference synthetic soundscapes evaluation set with only non-target events (Table 3 in [1])
- *mapping_file_tg.tsv*: mapping file list of the reference synthetic soundscapes evaluation set with only target events
- *mapping_file_tg_ntg.tsv*: mapping file list of the reference synthetic soundscapes evaluation set with only target and no-target events
- *mapping_file_tg_ntg_all.tsv*: mapping file list with target, non-target and target + no-target events
- *ground_truth_ntg.tsv*: ground-truth for the synthetic soundscapes evaluation set with no-target events (empty .tsv file needed by the system) (Table 3 in [1])
- *durations_ntg.tsv*: durations of the synthetic soundscapes evaluation set with no-target events clips (Table 3 in [1])

Ground-truth and durations file valid for varying TNTSNR and synthetic evaluation set with target and target + no-target events (Fig. 1-3 in [1]):

- *ground_truth.tsv*: ground-truth file
- *durations.tsv*: durations clips file

Synthetic set with varying TNTSNR (Fig. 1-3 in [1]):

- *mapping_file_5SNR.tsv*: mapping file list of the synthetic set with 5dB TNTSNR
- *mapping_file_10SNR.tsv*: mapping file list of the synthetic set with 10dB TNTSNR
- *mapping_file_15SNR.tsv*: mapping file list of the synthetic set with 15dB TNTSNR
- *mapping_file_all_SNR.tsv*: mapping file list of the synthetic set with 5dB, 10dB and 15dB TNTSNR

Synthetic set with varying onset time (Fig. 4 in [1]):

- *mapping_file_onset_500.tsv*: mapping file list of the synthetic set with 500ms onset
- *mapping_file_onset_5500.tsv*: mapping file list of the synthetic set with 5500ms onset
- *mapping_file_onset_9500.tsv*: mapping file list of the synthetic set with 9500ms onset
- *mapping_file_onset.tsv*: mapping file list of the synthetic set with 500ms, 5500ms, and 9500 ms onset
- *500ms.tsv*: ground-truth for the synthetic set with 500ms onset
- *5500ms.tsv*: ground-truth for the synthetic set with 5500ms onset
- *9500.tsv*: ground-truth for the synthetic set with 9500ms onset

You will also find a **unique file** containing all the mappings:

- *mapping_file_all.tsv*: mapping file containing all the mapping between the different sets.

[1] Ronchini F., Serizel R., “*A benchmark of state-of-the-art sound event detection systems evaluated on synthetic soundscapes*”, in ICASSP 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP).