

Project structure

Data: Should contain all data files in a flat structure (no subfolders).

Non-overlap: Contains relevant code for the wake word detection system based on non-overlapping windows.

Sliding window: Contains relevant code for the wake word detection system based on a sliding window.

organize_files.py: Organizes the data in the data folder into three subsets, which in turn are moved in to separate subfolders.

concat_files.py: Creates new files by concatenating test files, which can be used as input to the system.

Non-overlap

models: Contains the parameters of trained models.

pickles: Contains preprocessed data and other data needed across separate scripts.

plots: Contains plots generated by applying the model to longer/concatenated speech files.

preprocessing.py: Preprocesses the data and stores it in separate pickle files.

model.py: Defines the TensorFlow model.

train_model.py: Trains the model previously defined and saves the parameters.

evaluate_model.py: Computes performance measures using the trained model and preprocessed test data.

plot_preds.py: Generates plots of the predicted wake word probabilities based on longer/concatenated speech files.

realtime.py: Records speech and detects wakewords in real time. File should be executable.

Sliding window

models: Contains the parameters of trained models.

pickles: Contains preprocessed data and other data needed across separate scripts.

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