Example files of the Intelligibility Sensing Enhancement for ASD
(LASP_ISE_ASD)

The LASP_ISE_ASD database is available to show the spectrograms and Index of Non-Stationarity (INS) values for a clean spech and noise signals related to the ISE_{ASD} (Intelligibility Sensing Enhancement for ASD) solution [1]. The INS [2] objectively compares the target signal with stationary references called *surrogates*. A stationarity threshold $\gamma \approx 1$ is defined for each window length T_h considering a confidence degree of 95%. The INS is computed for different time scales T_h/T , where T refers to the total duration of the analyzed signal. Therefore, the signal is considered non-stationary whenever $INS > \gamma$. The five INS figures in the "INS" folder correspond to a clean speech signal selected from TIMIT database [3] and four noises: Babble [4], Speech Shaped Noise (SSN) [5], Cafeteria, and Helicopter[1].

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[3] J. S. Garofolo, L. F. Lamel, W. M. Fisher, J. G. Fiscus, and D. S. Pallett, "DARPA TIMIT acoustic-phonetic continuous speech corpus CD-ROM. NIST speech disc 1-1.1," NASA STI/Recon technical report n, vol. 93, 1993.

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[1]Available at www.freesound.org.