



Description and Terms of Use of the FR and NFIM signals

June 2016

Filtered Recordings (FR)

These files include the recordings for the ISTS (International Speech Test Signal) in the six different languages in the status directly before the segmentation process (Holube et al., 2010). For this status, the pause durations were limited to 600 ms at most (cutting only necessary for very few pauses) and filtered to Byrne et al. (1994).

Native Female Informational Masker (NFIM):

The pause durations in the filtered recordings were limited to 250 ms at most and filtered again to the same LTASS as the ISTS (Byrne et al., 1994). These files were used as a masker in speech intelligibility tests (Holube, 2011). This is the reason for the name of the signals (NFIM) and was kept here for easier cross reference.

General

All signals were calibrated similar to ISTS, i.e., to 65 dB SPL within the frequency range 200 Hz to 5 kHz assuming digital full scale to be 103 dB SPL. They have no DC-offset and they were windowed at the beginning and the end to avoid artefacts when presenting in a loop.

Terms of Use

All Copyrights on the FR and NFIM signals belong to the European Hearing Industry Manufacturers Organization (EHIMA).

The FR and NFIM signals are made available free of costs by EHIMA for use in the field of hearing. For use in other fields, permission must be obtained from EHIMA.

EHIMA accepts no responsibility regarding the use of the signals and can under no circumstances be held liable for damages to property or personal injury.

EHIMA reserves the right to transfer the copyright to a third party or to restrict the right of use when deemed necessary due to standardization purposes or other compelling reasons.

Contact

EHIMA aisbl

Technical Committee Secretariat

Email: tc@ehima.com

Web: www.ehima.com



References

- Byrne, D., Dillon, H., Tran, K., Arlinger, S., Wibraham, K., Cox, R., Hagerman, B., Hetu, R., Kei, J., Lui, C., Kiessling, J., Kotby, M., Nasser, N., El Kholy, W., Nakanishi, Y., Oyer, H., Powell, R., Stephens, D., Meredith, R., Sirimanna, T., Tavatkiladze, G., Frolenkov, G., Westerman, S. and Ludvigsen, C. (1994). "An international comparison of long-term average speech spectra", J. Acoust. Soc. Am. 96, 2108-2120.
- Holube I, Fredelake S, Vlaming M, Kollmeier B. (2010). "Development and Analysis of an International Speech Test Signal (ISTS)" Int. J. Audiol 49, 891–903.
- Holube, I. (2011). "Speech intelligibility in fluctuating maskers," International Symposium on Auditory and Audiological Research, Nyborg, Dänemark (ISAAR).