

General Information

These matlab scripts are provided for demonstration purposes and might not be suitable in general signal cases. Moreover, they are not optimised with respect to speed. However, they are suitable for the reproduction of the figures shown in [1].

Feel free to use and modify the specific scripts. However, in case of possible publication the citation of [1] will be greatly appreciated.

In case of use of the provided echolocation calls [1] should be explicitly cited.

For questions and/or corrections email to me: kopsinis@ieee.org.

Installation Instructions and Use

In order for the scripts to work properly, the Time-Frequency toolbox [2] should be installed. It is freely available from <http://tftb.nongnu.org/>.

Then all the files contained in the bat_tfr.zip should be extracted into a specific matlab folder.

To start with, you are suggested to run figure_reproduction.m which reproduces the figures of [1].

References

[1] Y. Kopsinis, E. Aboutanios, D. A. Waters, S. McLaughlin, "Time-frequency and advanced frequency estimation techniques for the investigation of bat echolocation calls," Journal of Acoustical Society of America (JASA), vol. 127(2), Feb 2010.

[2] F. Auger, P. Flandrin, P. Gonçalves, and O. Lemoine, "Time-frequency toolbox, ver. 0.2," <http://tftb.nongnu.org/>