

readme.txt

This folder contains spectral subtractive algorithms (Chapter 5):

		Reference
specsub.m	Basic spectral subtraction algorithm	[4]
mband.m	Multi-band spectral subtraction.	[9]
ss_rdc.m	Spectral subtraction with adaptive gain averaging and reduced delay convolution	[10]

USAGE

```
>> specsub(infile.wav, outfile.wav)

>> mband(infile.wav, outfile.wav, Number_Of_Channels, Freq_Spacing)
    where
        'Number_of_Channels' is the number of bands
        'Freq_spacing' is: 'linear', 'log', 'mel'

    Example usage:
        mband('sp04_babble_sn10.wav', 'outmb.wav', 6, 'linear');

>> ss_rdc(infile.wav, outfile.wav)
```

References:

- [4] Berouti, M., Schwartz, M., and Makhoul, J. (1979). Enhancement of speech corrupted by acoustic noise. Proc. IEEE Int. Conf. Acoust., Speech, Signal Processing, 208-211.
- [9] Kamath, S. and Loizou, P. (2002). A multi-band spectral subtraction method for enhancing speech corrupted by colored noise. Proc. IEEE Int. Conf. Acoust., Speech, Signal Processing
- [10] Gustafsson, H., Nordholm, S., and Claesson, I. (2001). Spectral subtraction using reduced delay convolution and adaptive averaging. IEEE Trans. on Speech and Audio Processing, 9(8), 799-807.

Copyright (c) 2006 by Philippos C. Loizou

\$Revision: 0.0 \$ \$Date: 07/30/2006 \$
