readme

```
%
  MATLAB implementation of the intelligibility index proposed in [1]
%
%
   Usage:
%
    fAĬ (cleanFile, noisyFile, enhancedFile)
    cleanFile = name of stimulus file in quiet
    noisyFile = name of noisy (corrupted) speech file
%
    enhancedFile = name of processed file
Above call will return the fractional Al index (fAl) value, ranging
    from 0 (poor intelligibility) to 1 (high intelligibility). For mapping of fAI values to intelligibility scores, see Fig 4 [1].
    WARNING: The three input wav files need to be in correct order as shown
             above.
    Routine was implemented assuming telephone bandwidth (4 kHz)
    but can be easily extended to higher sampling frequencies.
    Authors: Jianfen Ma and Philipos Loizou
    Reference:
    [1] Loizou, P. and Ma, J. (2011). "Extending the articulation index to
%
        account for non-linear distortions introduced by noise-suppression
%
        algorithms, "J. Acoust. Soc. Am., 130(2), 986-995.
%
%
    Example 1:
>> fAI ('S_51_09.wav', 'S_51_09_car_sn5.wav', 'S_51_09_car_sn5_scal art.wav')
ans =
    0.3082
   Parameters that can be changed are "gamma" and "SNRL".
   If gamma=0 (same as setting p=0 in Eq. 7) and SNRL=0 dB, then one can generate
   bottom panel of Fig 3 in [1] (after uncommenting line 58: plot(dist_vec))
   Example 2 (with above parameters) uses same sentences shown in Fig 3 [1]:
>> fAI ('S_15_01. wav', 'S_15_01_babbl e_sn0. wav', 'S_15_01_babbl e_sn0_rdc. wav')
ans =
    0.0314
```