

Master the Usage of T-SBL in 1 Minute

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1. When shall I use T-SBL?

Please refer to “*Master the Usage of T-MSBL in 3 Minutes*”
(http://dsp.ucsd.edu/~zhilin/papers/TSBL_cookbook.pdf)

2. The most convenient way to use T-SBL

- You can simply use the command to call T-SBL for **low SNR cases** (MMV model with temporal correlated source vectors, when SNR is less than 13 dB)

`X_est = TSBL(Phi, Y);`

- In most cases you can roughly know or estimate the noise level (of course you need not to know the exact value). In this case, you can choose these commands for a better performance:

- ❖ When SNR is low (**SNR ≤ 13 dB**)

`X_est = TSBL(Phi, Y, 'SNR', 'low')`

- ❖ When SNR is high (**SNR > 13 dB**)

`X_est = TSBL(Phi, Y, 'SNR', 'high')`

- ❖ When no noise

`X_est = TSBL(Phi, Y, 'SNR', 'inf')`

Note: The above four commands uses a set of pre-defined parameter values. See the TSBL code for details about these pre-defined values.