

Readme.pdf

Files to accompany Shikhaliev, Potter, Chi, "Estimation of a Low-Rank Structured Covariance", IEEE SP Letters, 2019.
doi 10.1109/LSP.2019.2906405

1. Readme.pdf	This file
2. MakeFigure1a.m	Script to create Figure 1a
3. MakeFigure1b.m	Script to create Figure 1b
4. A_func_noise_floor.m	Utility routine
5. logdet.m	Utility routine (open source, D. Lin)
6. CovarianceEstimatorSuite.m	Function

To reproduce Figures 1a and 1b, simply execute the respective script, with the two utility files in the directory (or path).

```
>> MakeFigure1a  
>> MakeFigure1b
```

More generally, the function CovarianceEstimatorSuite.m computes 15 ML and MAP estimators.

```
[invR,V,Lambda,R]=CovarianceEstimatorSuite(X,method,param,verbose)
```

Use the help command in Matlab to view documentation and an example:

```
>> help CovarianceEstimatorSuite
```