1. Least square based NMF for face recognition

2. Least square based NMF for text mining

3. SVD based PCA for face recognition

4. SVD based PCA for data clustering

5. ICA for sensory signal processing

7. ICA for audio signal processing

7. Visualization of SVD

8. Kernel PCA

*You can choose other applications different from the listed ones, but you are required to use one of these three algorithms: NMF, PCA, ICA