===================================================================== RESTART: D:\py\_codes\mkm\_tSNE\_8tank\_Stable.py =====================================================================

No. of observations in raw-data files = 4000

No. of data-vectors in raw-data files = 14

No. of observations in training-data = 2000

No. of data-vectors in training-data = 14

No. of observations in testing-data = 2000

No. of data-vectors in testing-data = 14

t-SNE MODELING FOR NORM.TRAINING DATASET BEGINS::

Computing Pairwise Affinities....

Warning (from warnings module):

File "D:\py\_codes\mkm\_tSNE\_8tank\_Stable.py", line 108

p\_new = np.maximum(p / np.sum(p), eps) ### error: RuntimeWarning: invalid value encountered in divide

RuntimeWarning: invalid value encountered in divide

Completed Pairwise Affinities Matrix.

Computing Symmetric p\_ij matrix....

Completed Symmetric p\_ij Matrix.

Computing Pairwise Affinities....

Completed Pairwise Affinities Matrix.

Computing Symmetric p\_ij matrix....

Completed Symmetric p\_ij Matrix.

Optimizing Low Dimensional Embedding....

Iteration 1: Value of Cost Function is 5.227681107577466

Iteration 50: Value of Cost Function is 2.8209916129363686

Iteration 100: Value of Cost Function is 1.8065675544613393

Iteration 150: Value of Cost Function is 1.4568243422165315

Iteration 200: Value of Cost Function is 1.272452201308215

Iteration 250: Value of Cost Function is 1.1623136843802184

Iteration 300: Value of Cost Function is 0.7405154088698612

Iteration 350: Value of Cost Function is 0.6143528025124475

Iteration 400: Value of Cost Function is 0.5527800294164265

Iteration 450: Value of Cost Function is 0.517212480155875

Iteration 500: Value of Cost Function is 0.4944731659528871

Iteration 550: Value of Cost Function is 0.4789044828059502

Iteration 600: Value of Cost Function is 0.4676848009501412

Iteration 650: Value of Cost Function is 0.459297001456527

Iteration 700: Value of Cost Function is 0.4528044241887425

Iteration 750: Value of Cost Function is 0.44761804538248995

Iteration 800: Value of Cost Function is 0.4433453519902408

Iteration 850: Value of Cost Function is 0.43971843552852874

Iteration 900: Value of Cost Function is 0.43655692968270493

Iteration 950: Value of Cost Function is 0.4337428360597376

Completed Low Dimensional Embedding: Final Value of Cost Function is 0.43127503771628284

t-SNE MODELING FOR NORM.TRAINING DATASET ENDS::

t-SNE MODELING FOR NORM.TESTING DATASET BEGINS::

Computing Pairwise Affinities....

Completed Pairwise Affinities Matrix.

Computing Symmetric p\_ij matrix....

Completed Symmetric p\_ij Matrix.

Computing Pairwise Affinities....

Completed Pairwise Affinities Matrix.

Computing Symmetric p\_ij matrix....

Completed Symmetric p\_ij Matrix.

Optimizing Low Dimensional Embedding....

Iteration 1: Value of Cost Function is 5.229443355115136

Iteration 50: Value of Cost Function is 2.7042735601691557

Iteration 100: Value of Cost Function is 1.6818612007961224

Iteration 150: Value of Cost Function is 1.3405352246360533

Iteration 200: Value of Cost Function is 1.1687651587423176

Iteration 250: Value of Cost Function is 1.0686654770710178

Iteration 300: Value of Cost Function is 0.668530036884811

Iteration 350: Value of Cost Function is 0.5437818621708284

Iteration 400: Value of Cost Function is 0.48167348026558743

Iteration 450: Value of Cost Function is 0.4450761842572317

Iteration 500: Value of Cost Function is 0.42122838660062956

Iteration 550: Value of Cost Function is 0.40459958782701233

Iteration 600: Value of Cost Function is 0.39244288958126045

Iteration 650: Value of Cost Function is 0.3832110572454594

Iteration 700: Value of Cost Function is 0.37597930375496624

Iteration 750: Value of Cost Function is 0.37017848078705956

Iteration 800: Value of Cost Function is 0.3654050667126994

Iteration 850: Value of Cost Function is 0.36140874887607644

Iteration 900: Value of Cost Function is 0.3580078595662209

Iteration 950: Value of Cost Function is 0.35508058917357915

Completed Low Dimensional Embedding: Final Value of Cost Function is 0.35262623861231324

t-SNE MODELING FOR NORM.TESTING DATASET ENDS::

Stop-time, T\_train (in s) : 306.4490146

Stop-time, T\_test (in s) : 309.43334860000004

from KDEpy import FFTKDE