# Supplementary Table 1

**Genomics dataset**

**Table 1.1** The data of low-dimensional gene expression time series $\left\{v\_{t}\right\}$ under the condition of $h$=0.003 and $T$=1050

The data is listed on <https://github.com/suranl/EKATP> (Supplementary Table 1.1.csv)

**Table 1.2** The data of low-dimensional gene expression time series $\left\{v\_{t}\right\}$ under the condition of $h$=0.006 and $T$=1050

The data is listed on <https://github.com/suranl/EKATP> (Supplementary Table 1.2.csv)

**Table 1.3** The data of low-dimensional gene expression time series with$ T$=15000

The data is listed on <https://github.com/suranl/EKATP> (Supplementary Table 1.3.csv)

**Table 1.4** The data of high-dimensional gene expression time series $\left\{f\_{t}\right\}$ under the condition of $h$=0.003 and $T$=1050

The data is listed on <https://github.com/suranl/EKATP> (Supplementary Table 1.4.csv)

**Table 1.5** The data of high-dimensional gene expression time series $\left\{f\_{t}\right\}$ under the condition of $h$=0.006 and $T$=1050

The data is listed on <https://github.com/suranl/EKATP> (Supplementary Table 1.5.csv)

**Table 1.6** The data of high-dimensional gene expression time series with $T$=15000.

The data is listed on <https://github.com/suranl/EKATP> (Supplementary Table 1.6.csv)

**Table 1.7** Parameter setting of Lorenz system

|  |  |  |  |
| --- | --- | --- | --- |
| Parameter | $$η$$ | $$ρ$$ | $$β$$ |
| value | 10.0 | 28.0 | 8.0/3.0 |

**Table 1.8** Division of training set and testing set

|  |  |  |
| --- | --- | --- |
| Datasets | Training set | Testing set |
| Value | [0:1000] | [1000:1050] |

**Table 1.9** The interval of gene time series in three different periods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Parameter | $$T$$ | $$t\_{1}$$ | $$t\_{2}$$ | $$t\_{3}$$ |
| value | 15000 | [2000:3000] | [2700:3700] | [5780:6580] |