|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Set | Our Method | | CSP index | |
|  | RI | ARI | RI | ARI |
| Column2C | 0.5396 | 0.1067 | 0.5593 | -0.0034 |
| Heart | 0.5030 | 0.0088 | 0.5035 | -0.0015 |
| Tae | 0.5766 | 0.0034 | 0.3423 | -0.000328 |
| Pageblocks | 0.4272 | 0.0541 | 0.8144 | 0.0362 |
| Oil | 0.6792 | 0.2014 | 0.5220 | 0.1141 |
| CNAE9 | 0.7095 | 0.2777 | 0.1544 | 0.000015 |
| Target | 0.6934 | 0.3750 | 0.4926 | 0.0146 |
| EngyTime | 0.5171 | 0.0343 | 0.4999 | -7.1403e-07 |
| WingNut | 1 | 1 | 0.9922 | 0.9843 |
| Spiral | 1 | 1 | 0.7706 | 0.5592 |
| Aggregation | 0.9062 | 0.7517 | 0.8936 | 0.7338 |
| Compound | 0.8237 | 0.5226 | 0.8904 | 0.7425 |
| Jain | 0.4633 | -0.0584 | 0.6939 | 0.2654 |
| TwoDiamonds | 0.9925 | 0.9850 | 0.4994 | -6.2266e-06 |

Updates:

Pageblocks CSP(12) our(4)

CNAE9 856 dimensions CSP(32) our (5)

Compound CSP(6) our(5)

TwoDiamonds CSP(4) our(2)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Dataset | Linkage | RI | ARI | Optimal |
| Column2C | Complete | 0.5978 | 0.1882 | 2 |
| Average | 0.5132 | 0.0618 | 3 |
| Ward | 0.5072 | 0.0868 | 6 |
| Heart 1 | Complete | 0.5035 | 0.0056 | 2 |
| Average | 0.5177 | 0.0376 | 3 |
| Ward | 0.5564 | 0.1118 | 2 |
| Tae | Complete | 0.6691 | 0.0085 | 55 |
| Average | 0.5016 | 0.0064 | 2 |
| Ward | 0.6703 | 0.0123 | 55 |
| Pageblocks | Complete | 0.3986 | 0.0016 | 3 |
| Average | 0.4099 | 0.0087 | 3 |
| Ward | 0.2165 | 0.0044 | 32 |
| Oil | Complete | 0.7142 | 0.0176 | 189 |
| Average | 0.7170 | 0.2031 | 7 |
| Ward | 0.7327 | 0.2419 | 7 |
| CNAE9 | Complete | 0.7308 | 0.0697 | 6 |
| Average | 0.8315 | 0.3482 | 7 |
| Ward | 0.7664 | 0.2166 | 5 |
| Target | Complete | 0.4984 | -0.0027 | 2 |
| Average | 0.5126 | 0.0074 | 5 |
| Ward | 0.5819 | 0.1413 | 15 |
| EngyTime | Complete | 0.5783 | 0.1566 | 2 |
| Average | 0.6143 | 0.2286 | 7 |
| Ward | 0.5042 | 0.0082 | 236 |
| WingNut | Complete | 0.6942 | 0.3881 | 6 |
| Average | 0.6599 | 0.3194 | 7 |
| Ward | 0.5025 | 0.0039 | 368 |
| Spiral | Complete | 0.6835 | 0.0595 | 58 |
| Average | 0.4884 | -0.0031 | 2 |
| Ward | 0.6835 | 0.0590 | 59 |
| Aggregation | Complete | 0.8781 | 0.7001 | 3 |
| Average | 0.6730 | 0.3768 | 2 |
| Ward | 0.8325 | 0.5429 | 4 |
| Compound | Complete | 0.8258 | 0.5460 | 4 |
| Average | 0.8273 | 0.5522 | 4 |
| Ward | 0.7346 | 0.3790 | 3 |
| Jain | Complete | 0.3904 | 0.0056 | 150 |
| Average | 0.5788 | 0.2155 | 3 |
| Ward | 0.5127 | 0.0777 | 3 |
| TwoDiamonds | Complete | 0.6496 | 0.2986 | 6 |
| Average | 0.6649 | 0.3299 | 2 |
| Ward | 0.5030 | 0.0048 | 298 |
|  |  |  |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| 0.5766 | 0.3423 | 0.0034 | -0.000328 |
| 0.4272 | 0.8144 | 0.0541 | 0.0362 |
| 0.6792 | 0.5220 | 0.2014 | 0.1141 |
| 0.7095 | 0.1544 | 0.2777 | 0.000015 |
| 0.6934 | 0.4926 | 0.3750 | 0.0146 |
| 0.5171 | 0.4999 | 0.0343 | -7.1403e-07 |
| 1 | 0.9922 | 1 | 0.9843 |
| 1 | 0.7706 | 1 | 0.5592 |
| 0.9062 | 0.8936 | 0.7517 | 0.7338 |
| 0.8237 | 0.8904 | 0.5226 | 0.7425 |
| 0.4633 | 0.6939 | -0.0584 | 0.2654 |
| 0.9925 | 0.4994 | 0.9850 | -6.2266e-06 |