Table 12. Comparison of indicators

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Method  Data sets | | Purposed method | | | Literature [11] | | |
| Fitness | Accuracy | Average configuration steps | Fitness | Accuracy | Average configuration steps |
| Data set 1 | Variant1 | 0.973 | 1 | 3 | 0.753 | 0.681 | 4 |
| Variant2 | 1 | 1 | 0.744 | 0.694 |
| Variant3 | 1 | 1 | 0.755 | 0.668 |
| Variant4 | 1 | 1 | 0.702 | 0.68 |
| Data set 2 | Variant1 | 1 | 0.826 | 0.765 | 0.639 |
| Variant2 | 1 | 0.891 | 0.769 | 0.651 |
| Variant3 | 1 | 0.949 | 0.762 | 0.674 |

Table 13. Comparison of indicators with literature [20]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Method  Data sets | | Purposed method | | Trace clustering [20]with CNN coding[21] | |
| Fitness | Accuracy | Fitness | Accuracy |
| Data set 1 | Variant1 | 0.973 | 1 | 1 | 0.888 |
| Variant2 | 1 | 1 | 0.94 | 1 |
| Variant3 | 1 | 1 | 1 | 1 |
| Variant4 | 1 | 1 | 1 | 1 |
| Data set 2 | Variant1 | 1 | 0.826 | 1 | 0.888 |
| Variant2 | 1 | 0.891 | 0.96 | 0.91 |
| Variant3 | 1 | 0.949 | 0.916 | 0.95 |